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Marine Electronics Buyer's Guide 2012

NEW FOR 2012

NEXT GENERATION VHF

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New eTrex From Garmin!

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FAST DELIVERY ANYWHERE IN THE WORLD • INSTALLATION & SERVICE FACILITIES

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Raymarine e7 Touchscreen MFD with iPad Integration

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New Simrad NSS Touchscreen MFD Range

PLUS 100'S OF OTHER GREAT PRODUCTS INSIDE!

THIS GUIDE FEATURES JUST A SMALL SELECTION OF OUR FULL RANGE OF OVER 6,000 PRODUCTS
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THE MARINE ELECTRONICS BUYER'S GUIDE 2012

Welcome to our latest Buyer's Guide with hundreds of exciting new products including radars, plotters, autopilots, instruments and satellite communications. Over the past 24 years, mesltd.co.uk has grown to become Europe's leading specialist marine electronics supplier. Our philosophy of expert advice, a passion for customer service and competitive prices offers a winning combination – unmatched by any of our competitors.

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Our specialist advice and an unbiased selection make choosing the right electronics for your application even easier. Plus, our well stocked showrooms offer the biggest selection ever and the ability to compare products from the world's leading manufacturers. Most importantly, our team don't just answer the phone – they provide solutions and expert knowledge.

Plus, with installation and service facilities in the UK and Europe, we're your first choice for a professional installation. Our office in Poole will look after all your South Coast installation needs and if you can't find an office close to you, take advantage of our mail order and export facilities – fast despatch to anywhere in the world at globally competitive prices. The choice is yours - call in, call up or click on our online store ***www.mesltd.co.uk*** - your route to a better marine electronics solution.

Finally, remember that what you see here is just a selection of our 6000+ product line – if it works on wires and fits on boats, then we like to think we do it!!

Good Boating!

ANDREW SMYTHE
Managing Director

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Handheld Navigation

GARMIN eTREX 10

Handheld GPS

The eTrex 10 is a great choice for the budget conscious looking for a basic GPS device. It has a 2.2in sunlight readable monochrome display and comes with a worldwide basemap.

KEY FEATURES

- High-sensitivity, WAAS-enabled GPS receiver with HotFix® with GNSS support
- Paperless geocaching
- Waterproof standard: IEC 60529 IPX7
- USB interface
- Measures just 5.3 x 10.1 x 3.3cm, weighs 142g
- Up to 25 hours of battery life, 2 x AA

ALSO AVAILABLE

- **eTrex 20** - With 65k colour TFT display, 1.7Gb internal memory, microSD card slot
- **eTrex 30** - All the features of the eTrex 20 with unit-to-unit wireless transfer, 3 axis electronic compass and barometric altimeter

GARMIN GPS72H

Handheld GPS

This rugged GPS features a high sensitivity receiver for faster signal acquisition. WAAS enabled, waterproof and it floats! Also available as marine bundle pack with marine mounting bracket, 12v cigarette lighter cable and carrying case.

KEY FEATURES

- 500 waypoints, 50 routes
- Alarms
- Trip computer
- Auto track log, 10 saved tracks
- Course and speed filtering
- Built-in celestial tables

GARMIN DAKOTA 10 & 20

2.6in Handheld Touchscreen Chartplotter

Entry-level touchscreen handheld with high-sensitivity GPS with HotFix™ satellite prediction, and a worldwide basemap. Durable and waterproof, Dakota is built to withstand the elements and makes outdoor navigation simple with an easy to use interface. 850Mb internal memory.

KEY FEATURES

- 20hrs battery life (2 x AA)
- Automatic turn by turn routing on roads
- Optional mapping for detailed roads
- 1000 waypoints, 50 routes, 10,000 track points
- Chartsource and BlueChard g2 Vision compatible
- Inbuilt hunting/fishing calendar, sun and moon info
- **Dakota 20** - microSD™ card slot, tilt compensated 3-axis compass, barometric altimeter, wireless data transfer, also accepts OS mapping

GARMIN OREGON 450 & 550

3in Handheld Touchscreen Chartplotter

Rugged, lightweight and waterproof to IPX7, the Oregon range features a high sensitivity WAAS GPS, an easy to use interface and is ideal for both marine and land use with turn by turn routing on roads, a barometric altimeter and a tilt-compensated 3-axis electronic compass.

KEY FEATURES

- 16hrs battery life (2 x AA)
- 850Mb memory
- USB and NMEA0183 compatible
- Wireless data transfer
- **Oregon450** - 1000 waypoints, 50 routes
- **Oregon550** - 2000 waypoints, 200 routes
- 10,000 track points, 20 saved tracks
- Internal basemap
- Chartsource and BlueChard g2 Vision compatible
- Supports geocaching GPX files
- Inbuilt hunting/fishing calendar, sun and moon information and tide tables
- **Oregon450t & 550t** - Preloaded with topographic charts
- **Oregon550/550t** - 3.2 megapixel camera with autofocus, 4x digital zoom

GARMIN Montana 600 Bundle

Handheld GPS Chartplotter with G2 BlueChart UK & Ireland SD Card

The New Montana marine bundle combines detailed mapping with a sturdy GPS handheld. The bundle includes G2 BlueChart UK & Ireland mapping (HXEU706L) featuring smooth layering and seamless integration of map graphics for easy panning, scrolling and zooming. With rich colours and shading for easy interpretation and clear visibility, it gives boaters greater capabilities on the water. The rugged Montana 600 features a bright 4in sunlight readable, 65k colour TFT touchscreen display, a High-sensitivity, WAAS-enabled GPS receiver and HotFix® and a Worldwide built-in basemap with shaded relief.

KEY FEATURES

- 3-axis compass
- Barometric altimeter
- Waterproof (IEC 60529 IPX7)
- Multiple battery options (included)
- microSD™ card slot for optional mapping
- High speed USB and Serial interface
- Wirelessly share data between compatible units

GARMIN GPSMap62 & GPSMap62S

Handheld GPS Chartplotter

Rugged waterproof unit with a 2.6in sunlight-readable colour screen, 1.7Gb internal memory plus a built-in worldwide basemap with shaded relief. The GPSMap62S adds a microSD card slot for additional maps, barometric altimeter, electronic compass and unit-to-unit transfer functionality.

KEY FEATURES

- Add marine, topographic and road maps
- High sensitivity, high precision GPS receiver
- Photo navigation - download pictures from Garmin Connect™ Photos and navigate to them
- Compatible with Custom Maps - transform your own paper and electronic maps into downloadable maps
- USB (high speed on 62S) and NMEA0183 interface
- 20hr battery life, uses 2 x AA batteries
- 2,000 waypoints, 200 routes, 10,000 track points, 200 saved tracks

GARMIN GPSMap78 & GPSMap78S

Handheld GPS Chartplotter

Rugged unit with crisp colour mapping, high-sensitivity receiver, moulded rubber side grips plus a microSD card slot for loading additional maps. The GPSMap78S adds an electronic compass, barometric altimeter, unit-to-unit transfer functionality and high speed USB interface.

KEY FEATURES

- Inbuilt worldwide basemap
- Waterproof and floats
- 1.7Gb internal memory
- Add marine, topographic and road maps
- BirdsEye satellite imagery (subscription required)
- Compatible with Custom Maps - transform your own paper and electronic maps into downloadable maps
- USB (high speed USB on 78S) and NMEA0183 interface
- 20hr battery life, uses 2 x AA batteries

GARMIN GPSMap620

5.2in Colour Touchscreen Marine/Automotive Chartplotter

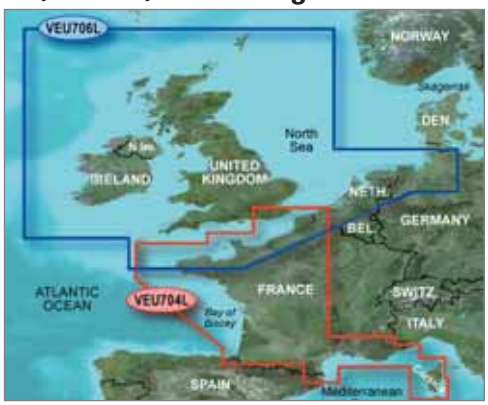
Full-featured chartplotter featuring an automotive mode when loaded with City Navigator NT road charts. Preloaded with worldwide satellite basemap of shorelines and other surface features. Marine mode provides 3D "mariner's eye view" above the waterline, "fish eye view" below the waterline and Auto Guidance that searches chart data to suggest the best passage.

KEY FEATURES

- Turn-by-turn voice prompts
- 1500 waypoints, 50 routes (marine)
- 1000 waypoints, 10 routes (automotive)
- 10,000-point auto track log
- AIS and DSC compatible
- Optional remote antenna
- Inbuilt tide and celestial tables
- Optional flush mount kit

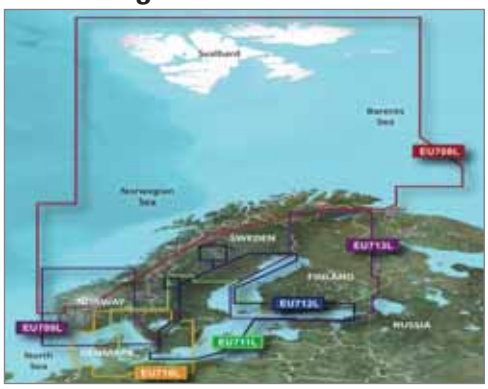
Turn to the back page for pricing and ordering info NOW!

BLUECHART g2 & g2 VISION
UK, Ireland, France Large



BLUECHART g2 & g2 VISION
Mediterranean Large

BLUECHART g2 & g2 VISION
Nordic Large



BLUECHART g2 & g2 VISION
Canada West Large

BLUECHART g2 & g2 VISION
Canada East Large

BLUECHART g2 & g2 VISION
USA West Coast Large

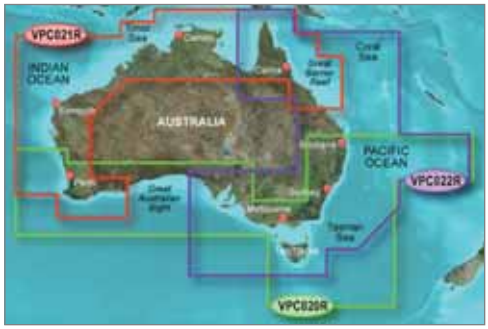
BLUECHART g2 & g2 VISION
USA East Coast Large

BLUECHART g2 & g2 VISION
USA Gulf of Mexico Large

BLUECHART g2 & g2 VISION
USA Alaska Large

BLUECHART g2 & g2 VISION
USA Great Lakes Large

BLUECHART g2 & g2 VISION
Caribbean Regular



BLUECHART g2 & g2 VISION
New Zealand Regular

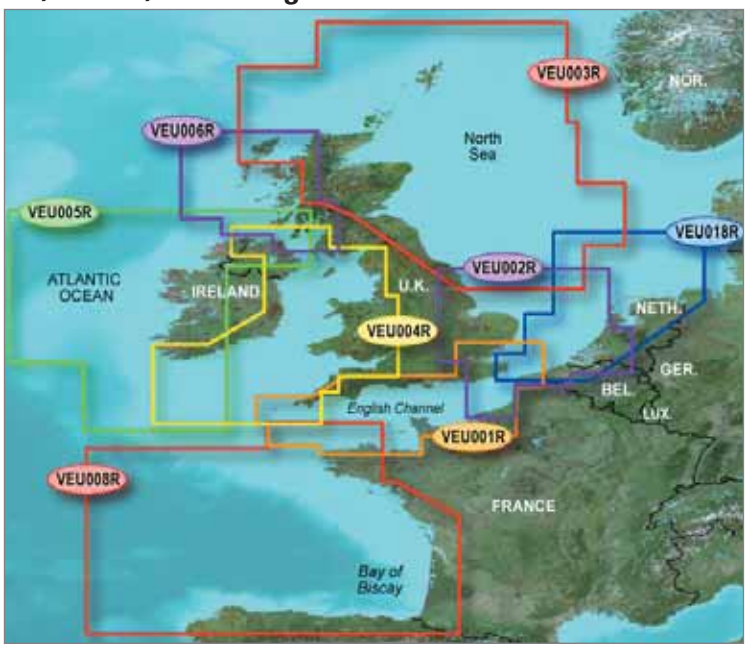
BLUECHART g2 & g2 VISION
Asia East Regular

Please note that this is just a small selection of the full Bluechart coverage - please call us for assistance if the cruising area you require is not shown here.

Cartography, Chartplotters & Chartsounders

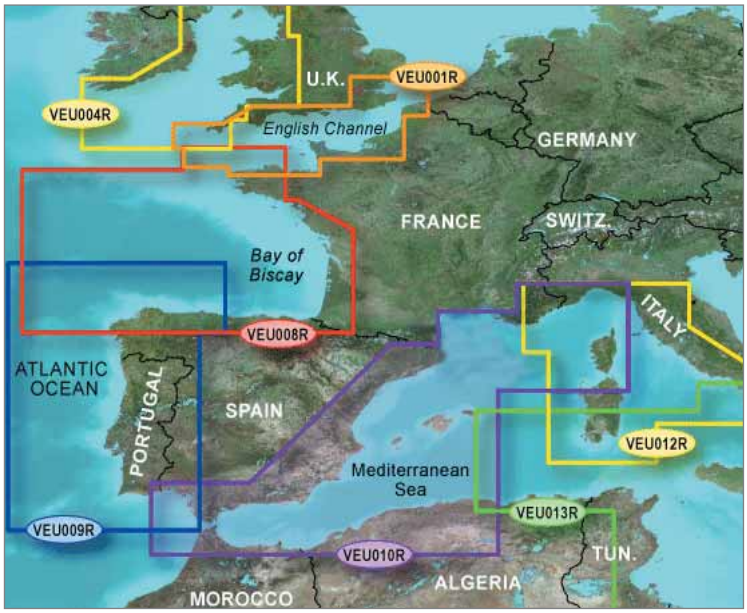
BLUECHART g2 & g2 VISION

UK, Ireland, France Regular



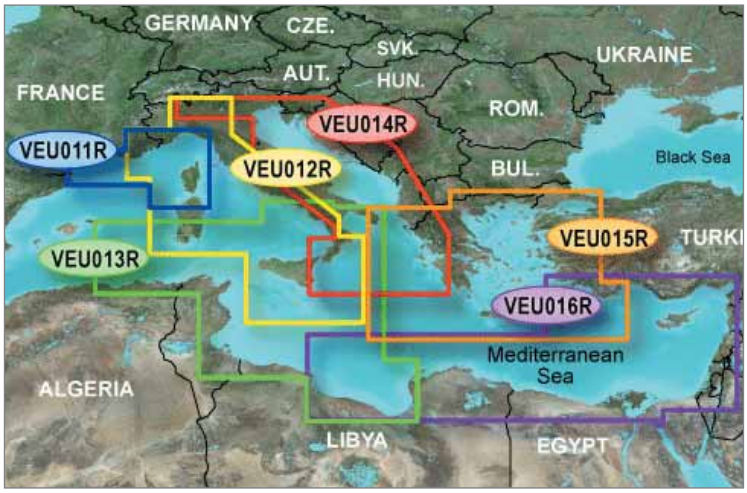
BLUECHART g2 & g2 VISION

Europe South Atlantic Coast Regular



BLUECHART g2 & g2 VISION

Mediterranean Regular



GARMIN GPSMap4x1/4x1S

4in Colour Chartplotter/Fishfinder

Available as a chartplotter (Map4x1) or a combination chartplotter/fishfinder (Map4x1S), this unit features an ultra-bright 4in colour QVGA display. The GPSMap4x1s comes with powerful dual frequency or dual beam sonar to clearly paint depth contours, fish targets, structure, etc. It's also CANet capable, allowing sounder data to be shared with other plotter displays on your boat.

KEY FEATURES

- Satellite-enhanced 3D worldwide basemap
- Preloaded US inland lakes maps
- Preloaded US coastal maps
- Preloaded with UK coastal maps
- Models include dual frequency or dual beam sounder
- Upgradeable to BlueChart g2 Vision cartography via plug in card
- Simple user interface, easy operation
- Simplify navigation with Auto Guidance
- NMEA2000 compatible

GARMIN GPSMap5x1/5x1S

5in Colour Chartplotter/Fishfinder

Chartplotter (Map5x1) or combination chartplotter/fishfinder (Map5x1S) with all the features of the GPSMap4x1 series, but with a larger ultra-bright 5in colour QVGA display.

KEY FEATURES

- GPSMap521 - Satellite-enhanced 3D worldwide basemap
- GPSMap531 - Preloaded with US inland lakes maps
- GPSMap541 - Also preloaded with US coastal maps
- GPSMap551 - Also preloaded with UK coastal maps
- S models include dual frequency or dual beam sounder

ALL 4 & 5in MODELS SUPPLIED WITH

Internal GPS antenna (optional external antenna), unit cover, tilt/swivel mount, cables, transducers sold separately

GARMIN GPSMap750/750S

7in Colour Touchscreen Chartplotter/Fishfinder

The GPSMAP 750 series can connect with any Garmin GMR™ series marine radar and come preloaded with UK & Ireland charts, which can easily be added to with optional BlueChart® g2 or g2 Vision® cards for expanded coverage of specific regions. The 750s features a powerful 1000 watt capable digital sounder.

KEY FEATURES

- NMEA 2000 connectivity for engine, fuel, VHF, autopilot and other data monitoring
- Single SD memory card slot
- Two NMEA 0183 ports

GPSMap750S FEATURES

- Optional 1kW transducer: 1000W (RMS) 8000W (p to p)
- Optional 500W dual frequency transducer: 500W (RMS) 4000W (p to p)
- Depth: 2,000ft / 600m (1kW), 1,500ft / (500W)
- UltraScroll high rep rate sonar provides lightning-fast screen updates

SUPPLIED WITH

Internal GPS antenna (optional external antenna), bail mount with built-in cable management, flush mount gasket, power/data cable, protective cover

Turn to the back page for pricing and ordering info NOW!

GARMIN GPSMap4000 SERIES

8.4in, 10.4in & 12.1in Colour Combination Displays

These powerful combi displays combine video-quality resolution and luminous colour with the latest sensor and data options. Worldwide satellite imagery enhances the standard vector basemap format, add the optional BlueChart Vision card for high-resolution aerial reference photos which help in navigating tricky harbours and channels or locating places such as marinas, fuel barges or restaurants. The g2 Vision plugin data card also allows the units to graphically depict a true 3D "mariner's eye" topside view or "fish eye" underwater navigation perspective.

KEY FEATURES

- GPSMap4008/4208 - 8.4in 640x480 pixel VGA
- GPSMap4010/4210 - 10.4in 800x600 pixel SVGA
- GPSMap4012/4212 - 12.1in 1024x768 pixel XGA
- Worldwide satellite basemap
- GPSMap4208, 4210 & 4212 - preloaded with US coastal maps
- Auto Guidance searches all the chart features to suggest the best known charted route for navigation
- Dual Bluechart g2 card slots
- 4000 waypoints, 50 outes, 300 waypoints/route
- GPSMap4012/4212 - 2 video inputs for onboard cameras, 1 SVGA PC monitor output
- Anchor drag, arrival, off-course, shallow water, deep water, proximity waypoint, clock and battery alarms
- Inbuilt celestial tables for sun and moon calculations
- Add radar with optional **GMR** series digital antennas
- Radar/chart overlay and split screen modes
- MARPA target tracking
- Add sonar with optional **GSD22** digital remote sounder

SUPPLIED WITH

GPS 17 WAAS sensor, A/V cable, power/data cable, mounting bracket, unit cover, flush mount, bail mount

GARMIN GPSMap5000 SERIES

8.4in, 12.1in & 15in Touchscreen Colour Combination Displays

The GPSMap 5000 series features a radical touch-screen interface that makes navigation as easy as pointing your finger. The units are supplied with a worldwide basemap with high-quality satellite images in place of more traditional charts. For even more detail, you can add charts easily using the SD card slots. Keep watch on your engine room or other areas of your vessel by connecting a live video feed using the video input/output.

BlueChart g2 Vision charts add a whole new dimension of exceptional feature - 3D mariner's eye view or fish eye view provides you with a 3D perspective of map information, both above and below the waterline. High-resolution satellite images and aerial photographs help you orient yourself in unfamiliar areas. Auto Guidance creates a route that avoids shallow water, buoys and other obstacles.

KEY FEATURES

- All the features of the 4000 series combi displays
- Innovative touch-screen design
- Dual Bluechart g2 card slots
- Add radar with optional **GMR** series digital antennas
- Add sonar with optional **GSD22** digital remote sounder
- GPSMap5008/5208 - 8.4in 640x480 pixel VGA
- GPSMap5012/5212 - 12.1in 1024x768 pixel XGA
- GPSMap5015/5215 - 15in 1024x768 pixel XGA
- GPSMap5208, 5212 & 5215 - preloaded with US coastal maps

SUPPLIED WITH

GPS 17 WAAS sensor, A/V cable, power cable, mounting bracket, unit cover, flush mount, marine grommet kit, NMEA2000 drop cable, NMEA2000 T-connector & terminator kit, NMEA2000 power cable, NMEA0183 cable

GARMIN HD DIGITAL RADAR

High Definition Digital Radar

The Garmin HD digital radomes and open array antennas offer high-powered Digital Signal Processing for sharper radar imagery and improved target separation. Automatic pulse optimisation matches pulse width and repetition rate with the selected range.

Self-contained signal processing provides a more precise, easy to read signature. Data is transmitted over the Garmin Marine Network to any compatible Garmin display.

KEY FEATURES

- Narrow beamwidth
- MARPA target tracking (10 targets)
- 24/30rpm dual rotation on open array antennas
- Minimum range - 20m

Tech info

Garmin Radar Scanners

When ordering your radar system you'll need to specify the antenna you require -

Part No.	Size	Power	Beam	Type	Range
GMR 18	18in	4kW		RD	36nm
GMR 18**HD**	18in	4kW	5°	RD	36nm
GMR 24**HD**	24in	4kW	3.6°	RD	48nm
GMR 404x**HD**	48in	4kW	1.8°	OA	72nm
GMR 406x**HD**	72in	4kW	1.18°	OA	72nm
GMR 604x**HD**	48in	6kW	1.8°	OA	72nm
GMR 606x**HD**	72in	6kW	1.1°	OA	72nm
GMR 1204x**HD**	48in	12kW	1.8°	OA	72nm
GMR 1206x**HD**	72in	12kW	1.1°	OA	72nm

RD - *Radome Antenna (enclosed)*
OA - *Open Array*
HD - *High Definition*

GARMIN GC10

Marine Camera

Durable and waterproof, the Garmin GC 10 was built to brave the elements. With a small and unobtrusive design in a rugged housing that makes it easy to mount almost anywhere on your boat.

KEY FEATURES

- Can be used with on-board TV, video monitors or chartplotters with video input
- No need to add separate hardware to view feed
- Standard-image and reverse-image models
- Automatic infra-red functionality

GARMIN GFS10

Fuel Sensor

Add fuel tracking to your Garmin combi and optimise your fuel economy.

KEY FEATURES

- 10-22v
- Unlike other fuel sensors it will measure fuel level when connected to an existing analogue fuel gauge or resistive fuel tank sensor
- Flow rate 2 - 50 Gallons per hour per engine
- Data transfer via CANet or NMEA 2000

Touchscreen Combi Displays

GARMIN GPSMap6000 SERIES

8.4 & 12.1in Colour Combination Displays

The next evolution in Garmin's series of full-featured marine products, the 6000 series brings unprecedented speed to your vessel with Garmin G Motion™ technology - blazing-fast map redraw and refresh rates offers near real-time data to guide you. Whether you're in a crowded harbour or in uncertain weather, you'll have the confidence to navigate with the 6000 series as your guide. Compatible with an optional remote for added flexibility and with a sleek and stylish design that was built to brave the elements, they look great in any position on the boat.

The 6000 series features a worldwide basemap with high quality satellite images in place of more traditional charts, plus you can easily add charts with the dual card slots. Optional BlueChart g2 Vision charts add a whole new dimension of exceptional features to your chartplotter - MarinerEye view and FishEye view provide you a 3-dimensional perspective of map information, both above and below the waterline. High-resolution satellite images and aerial photographs help you orient yourself in unfamiliar areas. Auto Guidance technology searches through all relevant charts to create a route you can actually follow - one that avoids obstacles, shallow water, buoys and other obstructions.

Keep tabs on your engine room or other area of your boat with a live video feed using the video input and output options. The 6000 series easily connects to your network so you can interface with additional displays and add remote sensors, cameras and more. Once connected, you can share information between the 6000 series and other chartplotters on your boat. You can also add high-powered radar, sonar and XM satellite weather and radio to your system.

KEY FEATURES

- GPSMap6008/6208 - 12.1in 1024x768 pixel XGA
- GPSMap6012/6212 - 15in 1024x768 pixel XGA
- Worldwide satellite basemap
- GPSMap6208 & 6212 preloaded with US coastal maps
- Add radar with optional **GMR** series digital antennas
- Radar/chart overlay and split screen modes
- MARPA target tracking
- Add sonar with optional **GSD22** digital remote sounder
- 5000 waypoints, 100 routes, 50,000 track points, 50 saved tracks
- 4 NMEA 0183 inputs, 2 NMEA 0183 outputs, 2 video inputs for onboard cameras, 1 PC monitor video output
- Anchor drag, arrival, off-course, shallow water, deep water, proximity waypoint, clock and battery alarms
- Inbuilt celestial tables for sun and moon calculations
- Tide tables
- AIS compatible

SUPPLIED WITH

GPS 17x NMEA 2000 with pole, flush and under deck mount adapters, front cover, power cable, video cable, NMEA 0183 cable, NMEA 2000 drop cable, 10m NMEA 2000 backbone cable, NMEA 2000 power cable, NMEA 2000 T-connector and terminator kit, bail mount, flush mount kit, marine grommet kit

GARMIN GPSMap7000 SERIES

12.1 and 15.5in Touchscreen Colour Combination Display

Put the power of Garmin's next-generation marine navigator right at your fingertips with the GPSMap7000 Series. The 7000 series brings all the features, all the power and speed of the 6000 series but with innovative touchscreen control and the choice of larger displays. The 7000 Series comes standard with a worldwide, satellite-enhanced basemap as well as video-quality resolution on an impressive 12.1in or 15.5in XGA display. The 7000 Series also provides total system integration – allowing support for the addition of sonar, radar, weather and more. For additional enhanced features, you can add the optional BlueChart g2 Vision card.

KEY FEATURES

- GPSMap7012/7212 - 12.1in 1024x768 pixel XGA
- GPSMap7015/7215 - 15in 1024x768 pixel XGA
- Dual Bluechart g2 card slots
- Worldwide satellite basemap
- GPSMap7212 & 7215 preloaded with US coastal maps
- Auto Guidance searches all the chart features to suggest the best known charted route for navigation
- AIS compatible
- Add radar with optional **GMR** series digital antennas
- Radar/chart overlay and split screen modes plus MARPA target tracking
- Add sonar with optional **GSD22** digital remote sounder
- 5000 waypoints, 100 routes, 50,000 track points, 50 saved tracks
- 4 NMEA 0183 inputs, 2 NMEA 0183 outputs
- GPSMap7012/7212 - 2 video inputs for onboard cameras, 1 PC monitor video output
- GPSMap7015/7215 - 4 video inputs for onboard cameras, 1 PC monitor video output, 1 PC monitor video input
- Anchor drag, arrival, off-course, shallow water, deep water, proximity waypoint, clock and battery alarms
- Inbuilt tide tables and celestial tables for sun and moon calculations

SUPPLIED WITH

GPS 17x NMEA 2000 with pole, flush and under deck mount adapters, front cover, power cable, video cable, NMEA 0183 cable, NMEA 2000 drop cable, 10m NMEA 2000 backbone cable, NMEA 2000 power cable, NMEA 2000 T-connector and terminator kit, bail mount, flush mount kit, marine grommet kit

Turn to the back page for pricing and ordering info NOW!

Garmin

Fishfinders & Instruments

GARMIN echo 100

4in Mono Single Beam Fishfinder

State-of-the-art target tracking technology brings a new level of fishfinding capability to the budget minded buyer. Garmin's exclusive HD-ID target tracking technology brings enhanced separation and definition of images on the echo 100's fast refreshing 4in grayscale display. The single-beam 200kHz transducer lets you scan to depths of up to 180m.

KEY FEATURES
- Garmin HD-ID™ technology
- 200kHz, 100 watts (RMS)
- Beam width to 60°
- Max Depth 180m (600ft)
- Compact design for smaller boats

SUPPLIED WITH
Tilt/swivel mount, transducer, trolling motor clamp and transom mount

GARMIN echo 200

5in Mono Dual Beam Fishfinder

Combines the features of the echo 150 with a larger 5in grayscale display. The dual-beam transducer scans deep water to 450m with a wide scanning angle perfect for shallow water as well. Smooth Scaling™ technology means you won't lose sight of the sonar history as the unit changes depth ranges and allows you to rewind your sonar history in order to ensure that you haven't missed a thing.

KEY FEATURES
- Garmin HD-ID™ technology
- 200/77kHz, 200 watts (RMS)
- Max depth 450m (1,500 ft)
- Beam width to 120°

SUPPLIED WITH
Tilt/swivel mount, transducer, trolling motor clamp and transom mount

GARMIN echo 300c

3.5in Colour Dual Beam Fishfinder

The echo 300c combines the performance and features of the echo 200 with the compact design of the echo 150 and a 3.5in colour sunlight viewable display. echo 300c is the only colour dual-beam fishfinder on the market at this price, making it the premier sonar option for fishermen on a budget!

KEY FEATURES
- Garmin HD-ID™ technology
- 200/77kHz, 200 watts (RMS)
- Max depth 450m (1,500 ft)
- Beam width to 120°

SUPPLIED WITH
Tilt/swivel mount, transducer, trolling motor clamp and transom mount

GARMIN echo 150

4in Mono Dual Beam Fishfinder

With dual-beam technology at a single-beam price, echo 150 is the sport fisherman's dream. Scan to depths of 400m in fresh water. In shallower water, a viewing angle of up to 120° lets you see fish well beyond the sides of your boat. HD-ID target tracking technology provides you with better separation and definition of images.

KEY FEATURES
- Garmin HD-ID™ technology
- 200/77kHz, 200 watts (RMS)
- Beam width to 120°
- Max Depth 400m (1,300ft)
- Compact design

SUPPLIED WITH
Tilt/swivel mount, transducer, trolling motor clamp and transom mount

GARMIN echo 500c/550c

5in Colour Dual Beam Fishfinders

Range of colour dual frequency fishfinders ideal for both shallow and deep water. HD-ID target tracking technology brings enhanced separation and definition of images. Smooth Scaling™ technology means you won't lose sight of the sonar history as the unit changes depth ranges and allows you to rewind your sonar history in order to ensure that you haven't missed a thing. The echo 550c boasts a video-quality 640x480-pixel VGA screen, providing an amazing level of detail on fish returns, structure and bottom contours.

KEY FEATURES
- Garmin HD-ID™ technology
- 200/77kHz, 500 watts (RMS)
- Max depth 580m (1,900 ft)
- Beam width to 120°
- echo 500c - 5in colour QVGA 234 x 320 pixel display
- echo 550c - 5in colour VGA 480 x 640 pixel display

SUPPLIED WITH
80/200kHz transom transducer, power/data cable, mounting bracket, flush mount hardware

GARMIN GMI 10

Digital Marine Instrument Display

Radical colour multifunction display that integrates with the Garmin Marine Network and other sensors via NMEA2000 and NMEA0183. By showing data from multiple remote sensors on one display, the GMI 10 offers a streamlined approach to marine instrumentation. Display data such as depth, speed, water and air temperature, wind speed/direction, fuel flow rate, engine data, fuel level and more, depending upon what sensors are connected. The GMI 10 supports more than two dozen standard NMEA2000 and more than 20 NMEA0183 data sentences and can also connect to any Garmin Marine Network chartplotters with an NMEA 2000 port.

KEY FEATURES
- Clear, bright 320 x 240 pixel colour QVGA display
- Flexible, expandable system suits all boat sizes
- GWS 10 wind sensor with barometric pressure and air temperature
- GPS 17x 12-channel WAAS GPS sensor
- GFS 10 fuel sensor
- NMEA2000 and NMEA0183 compatible
- Waterproof
- Flush mountable

SUPPLIED WITH
Display, mounting hardware, sun cover, power/NMEA 0183 cable, NMEA 2000 power cable, NMEA 2000 drop cable, NMEA 2000 tee & terminator kit

GWS 10 Wind Sensor

GPS 17x GPS Sensor

GFS 10 Fuel Sensor

Autopilot, AIS & VHF Radios

GARMIN GHP 12

Sailboat Autopilot System

GHP 12 brings Garmin's marine autopilot technology to sailboats. This second-generation autopilot is designed to suit most 20 to 70ft sailboats with linear-actuated steering systems with a choice of two drives (supplied separately).

KEY FEATURES
- Steer to GPS (requires GPS input)
- Integrates with GWS 10 wind sensor or compatible NMEA windvanes
- Heading hold, wind hold, step turn, tack/gybe

LINEAR ACTUATORS AVAILABLE
- Class A Drive Unit - up to 28,500lbs displacement
- Class B Drive Unit - up to 79,000lbs displacement

SUPPLIED WITH

GHC 10, course computer, electronic control unit, interconnect cable, buzzer, power cable, NMEA2000 drop cable, 2 x NMEA2000 T-connectors. Drive units sold separately

GARMIN GHP 10

Powerboat Autopilot System

Powerful, easy to use autopilot system. The GHC 10 fixed control unit integrates via a NMEA2000 bus, so autopilot heading data can easily be shared with other devices including chartplotters. Up to three GHC 10 controls can be interfaced with a single pilot, ideal for multiple helm station boats.

KEY FEATURES
- Suitable for all types of hydraulically steered power boats - inboard, outboard, stern-drive, diesels
- NEW FOR 2011 - GHP 10V version for Volvo Penta IPS steering systems
- No rudder feedback unit required
- Gyro-stabilised compass
- Patented Shadow Drive™ technology automatically disengages autopilot if the helm is turned and re-engages when a steady course is held
- Hold position against wind, waves or current
- Can steer in reverse
- Bright 320 x 240 pixel QVGA colour LCD display

HYDRAULIC REVERSING PUMPS AVAILABLE
- 1.2L (up to 160cc, 10in³)
- 2.0L (160-400cc, 10-24in³)
- 2.1L (160-400cc, 10-24in³), engine size 400hp+

SUPPLIED WITH

GHC 10, course computer, gyro compass, drive unit, interconnect cable, buzzer, power cable, NMEA2000 drop cable, NMEA2000 T-connector

GARMIN VHF 100i & VHF 200i

Fixed DSC VHF Radios

The Garmin VHF 100i and 200i range of VHF radios feature a large backlit 3.2in display, rotary volume, squelch and channel selection knobs, up to 25W transmission power and provides full Class D DSC capability.

KEY FEATURES
- Locate and monitor up to three other boats with position tracking capability
- 200i - Two-way hailer functionality when connected to compatible horn speaker
- 200i - Automatic and manual foghorn signals and adjustable base fog frequencies
- LOCAL receiver mode improves performance in busy port environments
- Ergonomic fist mic with built-in speaker
- Programmable international channels
- ATIS and private channel customisation options
- 200i - Multi-language user interface
- 200i - Supports GHS 10i second station
- Automatic power-on when boat starts
- Waterproof to IPX7 standard
- Easy front flush-mounting option
- NMEA 0183 compatible
- 200i - NMEA 2000 compatible

SUPPLIED WITH

Fistmike, power cable, hailer/NMEA cable (200i), mounting bracket, flush mount gasket, protective cover

GARMIN VHF 300i & VHF 300i AIS

Fixed DSC VHF Radios

Multi-station Class D DSC VHF transceiver comes with a two-way hailer system and a voicemail feature that lets you pre-record a 15-second message and send to any DSC radio. Replay the last 90 seconds of any incoming voice transmission at the touch of a button. Listen via the supplied 4in active speaker with volume control, the handset's inbuilt speaker or third-party passive speakers. Also features an inbuilt dual channel AIS receiver which simultaneously receives Class A and Class B AIS signals. NMEA 0183 and 2000 compatible.

KEY FEATURES
- Space-saving black box configuration
- 30w hailer when connected to compatible horn speaker
- GHS 10i handset microphone with 2in LCD display
- Rotary key and three soft buttons for dynamic controls
- Multi station support with intercom facility
- Locate and monitor up to three other boats with position tracking capability
- VHF 300i AIS - display AIS ship information - position, course and speed of AIS equipped vessels within range
- Waterproof to IPX7 standard

SUPPLIED WITH

GHS 10i handset microphone, active speaker, power cable, 10m deck cable, mounting hardware

GARMIN AIS300

Black Box AIS Receiver

This affordable NMEA2000 compatible black box AIS receiver alerts you to potential collisions with other AIS-equipped vessels in your vicinity. It integrates with a Garmin chartplotter and VHF radio to enable automatic AIS target calling and to display AIS target data directly on the chartplotter screen.

KEY FEATURES
- Class A and Class B reception
- Closest Point of Approach (CPA) alarm
- 12-volt and 24-volt boat systems
- NMEA 0183 output with selectable speed
- Inbuilt passive splitter enables one VHF antenna to serve both the AIS 300 and any VHF radio

SUPPLIED WITH

Power/data cable, 2m NMEA2000 cable, NMEA2000 T-connector, VHF interconnect cable, mounting kit

GARMIN AIS600

Black Box AIS Transceiver

Receive and transmit AIS data. Inbuilt active splitter allows one VHF antenna to serve both the AIS 600 and VHF radio with minimal signal loss. The AIS 600 connects to your existing Garmin marine network and is controlled via the chartplotter, so all the information you need will be right at your fingertips.

KEY FEATURES
- ClearTrack™ technology ensures no interruption of AIS traffic position while the VHF radio is in use
- Integrates with chartplotters & VHF via NMEA2000
- Call With Radio function - initiate a call to any MMSI target directly from the chartplotter

SUPPLIED WITH

GPS antenna, pole & surface mount, power cable, SRM cable, 2m NMEA2000 cable, NMEA2000 T-connector, USB cable, 2m VHF interconnect cable, PC/Software CD, mounting kit

Turn to the back page for pricing and ordering info NOW!

Simrad, B&G
Navigation Equipment

SIMRAD NSS
7, 8 & 12in Touchscreen Displays

KEY FEATURES
- Touch screen user interface
- Complementary rotary and button control
- Network up to four processors via Ethernet and SimNet / NMEA2000
- Network with Simrad NSE and NSO systems
- Internal GPS with external option
- Autopilot Integration
- BEP C Zone integration
- Audio Support

SIMRAD HD RADARS
High Definition Digital Radar

KEY FEATURES
- DX42S 2kW 18in Radome, 24nm, 5.3° beamwidth
- DX64S 4kW 24in Radome, 48nm, 4° beamwidth
- TX06S 6kW 4ft Open Array, 64nm, 1.8° beamwidth
- TX10S 10kW 6ft Open Array, 72nm, 1.2° beamwidth
- TX25S 25kW 8ft Open Array, 96nm, 1° beamwidth

SIMRAD BROADBAND RADAR 3G/4G
Networked Radar

KEY FEATURES - 3G & 4G
- Crystal clear image
- Automatic clarity
- 10 MARPA tracking
- Dual guard zones
- Instant on
- Low power consumption
- Extremely low emissions

NEW FOR 2012

KEY FEATURES - 4G ONLY
- 50% greater ranger than 3G
- Dual range (when used with NSE, Zeus and NSO)
- 48 RPM option
- Advanced target detection

SIMRAD TP10, TP22 & TP32
Cockpit Tillerpilots

KEY FEATURES
- TP10 (Up to 10m) - Budget standalone Tillerpilot.
- TP22 (Up to 11m) - Faster hard over time plus SimNet and NMEA compatibility.
- TP32 (Up to 12m) - Top spec high performance pilot with 85kg thrust and ultra-fast hard over time.
- Waterproof double sealed design
- NMEA interfacing to GPS & windvane (TP22/32)
- SimNet compatible (TP22/32)
- Optional external fluxgate sensor (TP22/32)
- Hand remote option (TP22/32)

SUPPLIED WITH
Mounting kit, deck socket (TP22/32 only)

SIMRAD NSE8 & NSE12
8in & 12in Combi Displays

KEY FEATURES
- Single, Dual or multi-station configurations
- Intuitive control interface for easy operation
- Input and output of video or navigation data
- Network NMEA0183, NMEA2000 or Simnet data
- Pre-loaded with complete European Navionics Platinum charts for Europe
- Award winning echosounder and radar technology
- Brilliant Low Power LED Display Technology

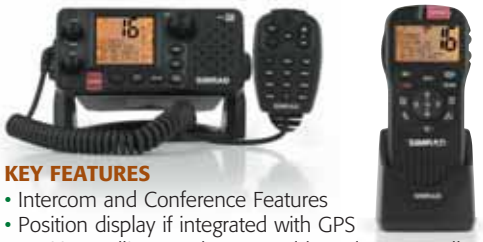
SIMRAD SONICHUB
Marine Audio Server

KEY FEATURES
- Four channel x 50 watt speaker amplifier
- AM/FM stereo tuner
- Line-out to subwoofer
- Audio source inputs including Apple products, other MP3 sources via USB port and flash drive
- Stereo AUX line input for audio, mono line input for intercom, alarm and emergency override
- Music control for up to three individual zones

B&G ZEUS Z8 & Z12
8in & 12in Combi Displays

KEY FEATURES
- Radar, sail navigation and weather chart overlays
- Water and ground vectors show the effect of tide and leeway on your course
- Mark and boat laylines, with time and distance to layline for each tack
- WindPlot allows you to make route choice decisions - whether to tack or stand on in the next gust etc
- B&G H-Link, NMEA0183 & NMEA2000 compatible
- Edit and backup of H3000 Polar tables
- Preloaded cartography (Nautic Insight™ for the USA, Navionics coastal packages for Europe and APAC)
- Optional cartography including Navionics Platinum+
- Compatible with wide range of Navico equipment including Broadband Radar, SonicHub and other approved Ethernet, SimNet and NMEA2000 devices

SIMRAD RS25 + AHK05
Fixed DSC VHF and Wireless Handset

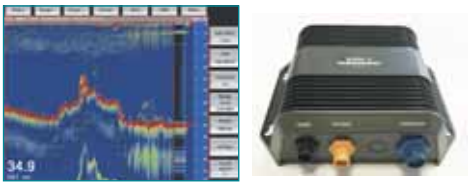


KEY FEATURES
- Intercom and Conference Features
- Position display if integrated with GPS
- Position Polling, Track your Buddy and Group Call
- Barometer, thermometer and weather forecasting
- Dual watch, Tri watch and All-Scan functions
- ATIS facility for inland waterways
- Waterproof to JIS-7
- NMEA 0183 input

SIMRAD NAIS300 & AI50
AIS Class B Transceiver Units

KEY FEATURES
- Plug and Play installation via NMEA0183 or Simnet
- Both models can be integrated with a compatible chart display or PC via NMEA0183 or Simnet

SIMRAD BSM-1
Broadband Sounder Module



KEY FEATURES
- Tri-frequency capability for optimal performance
- Deep water performance of over 3000ft
- Low Power and Low-noise Sonar
- High Resolution Linear receiver providing superior clarity in shallow and mid water

B&G TRITON
Instrument System

NEW FOR 2012

KEY FEATURES
- Multifunction "do it all" display
- Straightforward user interface
- Large 4.1in colour display - nearly 40% more area than competing products
- Bonded screens - excellent visibility in all conditions
- Low power consumption
- Dedicated pilot control - or interface with Zeus MFD
- B&G Wind sensor technology

Lowrance

Navigation Equipment

LOWRANCE HDS 2

5-10in HD Combi Displays

KEY FEATURES

- Real time side scan image overlay onto chart plotter screen (structure needs to be connected)
- Lighting fast graphics redraw
- SolarMAX Plus display for the best detail in bright sunlight, the best wide-angle viewing ever achieved
- Multi station networking
- Compatible with Navionics Gold, Platinum and Platinum plus cartography
- Add Sonic Hub, Structure Scan, AIS, Instrumentation and other NMEA 2000 devices

LOWRANCE BROADBAND RADAR

Networked Radar System For HDS

KEY FEATURES

- 19in radome, 5.2° beamwidth
- Crystal clear image of your immediate surroundings
- First radar with no radiation hazard
- InstantOn™ with no tuning required
- Low power consumption, ideal for yachts

LOWRANCE STRUCTURESCAN

Sonar Imaging For HDS

KEY FEATURES

- Fully Networkable
- Down Scan high detail sonar imaging up to 90m
- Side Scan imaging to at least 45m
- View DownScan imaging with HDS Broadband Radar in split screen mode
- Transducer includes water temperature sensor

LOWRANCE SONICHUB

Marine Audio Server

KEY FEATURES

- AM/FM stereo tuner
- Simple, menu-driven control via HDS display
- 4 x 50 watt amplifier plus line-out to subwoofer
- Supplied with 2 x 200w 6.5in marine speakers
- Audio source input via USB port and flash drive
- Stereo AUX line input for audio, mono line input for intercom, alarm and emergency override
- Music control for up to two individual zones

LOWRANCE ELITE-4 SERIES

4in Colour Fishfinder, Chartplotter and Chart Fishfinder

KEY FEATURES

- New high bright 320x240 pixel display
- Choose either the legendary Lowrance Dual frequency 83/200 echosounder or the award winning 455/800 DSI echosounder
- Inbuilt 16 channel GPS
- Quick release tilt and swivel mount bracket

MODELS AVAILABLE

- **Elite 4m** - 4in chartplotter
- **Elite 4x** - 4in echo sounder 83/200kHz
- **Elite 4** - 4in chartplotter/echo sounder 83/200kHz
- **Elite 4x DSI** - 4in downscan image echo sounder
- **Elite 4 DSI** - 4in chartplotter/downscan echo sounder

LOWRANCE ELITE-5 SERIES

5in Colour Fishfinder, Chartplotter and Chart Fishfinder

KEY FEATURES

- High Definition 480x480 pixel sun viewable screen
- Simple and Intuitive operation
- Quick release tilt and swivel mount bracket
- Internal 16 Channel precision GPS
- Navionics Gold Compatible

MODELS AVAILABLE

- **Elite 5x** - 5in 83/200kHz echo sounder
- **Elite 5m** - 5in chartplotter
- **Elite 5x** - 5in chartplotter & 83/200kHz echosounder
- **Elite 5x DSI** - 5in downscan echosounder
- **Elite 5 DSI** - 5in chartplotter/downscan echosounder

LOWRANCE LVR-250

Fixed Class D DSC VHF Radio

KEY FEATURES

- 1 x 1.8in LCD channel/function display with backlighting
- 25 watts transmit power / 1 watt low power mode
- 6 tactile microphone keys
- Rotary Channel control with press-to-ente
- 3 favourite channel mode with scan
- 3W external speaker and GPS interface
- Display position and time when connected to compatible GPS
- Rotary Channel control with press-to-enter
- Local/Distant feature eliminates interference
- Case and mic waterproof (JIS 7 submersible)

LOWRANCE LVR-880

Fixed DSC VHF Radio

KEY FEATURES

- All the features of the LVR-250 plus:
- NMEA0183 and NMEA2000 DSC integration
- Navigation to waypoint with transfer capability to plotters
- 200 waypoints with up to 6 character naming
- Intercom with talkback plus built-in 22w hailer-horn
- Extra-large and bright FSTN full-matrix screen
- Large 57mm speaker for great audio output when running at high speed
- Instant "GO" and MOB key

LOWRANCE LHR-80

Handheld Waterproof Floating VHF

KEY FEATURES

- Built-in GPS receiver with unique trackplotter screen feature
- Great Circle waypoint navigation
- Storage of up to 500 waypoints
- Man Over Board functionality
- "Track-Your-Buddy" allows boaters to pinpoint and display the exact location of other vessels via position polling
- "Get Buddy" transmits radio's position at the push of a button
- Save a buddy list of up to 20 people
- Large display with adjustable contrast and backlighting
- 1400mAh Li-Ion battery
- Signal Strength Indicator
- NOAA Wx 1050Hz tone alert for weather/storm warnings (US only)
- Lat/Long and time display
- Distress call button
- Up to 13hrs battery life

Turn to the back page for pricing and ordering info NOW!

NASA Marine
Navigation Equipment

NASA PC NAVTEX USB
Dual Frequency PC Navtex Receiver
View Navtex messages on your PC! Instantly get the latest weather forecast from your local station or any other message stored in the unit's memory.

KEY FEATURES
- Receives messages even without PC connected
- Supports selected message filtering and printing
- Low current consumption - can be left on 24/7

SUPPLIED WITH
Compact stub antenna, software, cable

NASA AIS ENGINE 3
2 Channel AIS Receiver
Turn your PC or compatible chart plotter into an AIS display! Windows 95, 98, ME, XP, 2000, NT and Vista compatible, the software includes a world map on which vessels are plotted.

KEY FEATURES
- Optional GPS input
- Display vessel name, MMSI number, position, call sign, destination etc
- Works with all plotters, radars, PCs etc with AIS input
- Super sensitive receiver with GPS multiplexer
- Receives all class A and class B messages
- AIS Engine 3 decodes all available AIS messages

SUPPLIED WITH
Software, 9-pin serial data cable, 12 volt power cable

NASA HF3/W
MF/HF Receiver

Covering 30Khz - 30Mhz, this compact MF/HF receiver includes a weatherfax interface.

SUPPLIED WITH
Antenna, PC cable, power supply, Meteoscan lite software to download weatherfax pictures, RTTY weather forecasts and navtex messages.

NASA CLIPPER
Instrument System
Budget 110mm instrument system with large clear displays. Supplied with transducers and cabling.

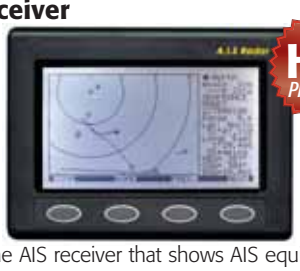
KEY FEATURES
- Log - log, trip log and trend indicator, kts/mph
- Depth - keel/waterline offset, deep/shallow alarms, trend indicator, feet or metres
- Wind - "digital analogue", selectable pointer style
- Duet - combines the Clipper Speed and Depth
- Compass - true or magnetic display, steering function, off-course alarm
- GPS Repeater - COG, SOG, Lat/Long, BTW, DTW, XTE, rolling road display

NASA CLIPPER EASY NAVTEX
Dual Frequency LCD Navtex Receiver

Easy to read, this Navtex receiver features big, bold characters and intuitive message formatting.

KEY FEATURES
- 518/490kHz, programmable channel switching
- Built in real time spectrum analyser
- Very high contrast display with white backlight

SUPPLIED WITH
Compact stub antenna

NASA AIS RADAR
AIS Receiver


Standalone AIS receiver that shows AIS equipped vessels in a radar-style format. A trail of previous positions clearly shows the relative track of all the targets on the screen. Requires standard VHF antenna.

KEY FEATURES
- 1, 2, 4, 8, 16 and 32nm ranges
- SOG, vessel's name, MMSI and current Lat/Long
- Low power consumption

NASA MOBi
Man Overboard Indicator
Keep your crew safe with this state of the art man overboard system, consisting of a base unit and up to eight waterproof active transponder tags, each of can be individually named.

KEY FEATURES
- Failsafe transponder technology
- Base unit alarm if crewmember falls overboard
- Each tag is individually identified on the display
- 3 x AAA batteries will power each transponder for several weeks' continuous use

SUPPLIED WITH
Base unit, three tags

NASA BM-1
Battery Monitor
Monitors the performance of 12v lead acid battery systems with up to 600Ah capacities. It shows voltage, current (charge or discharge), the battery's state of charge and the time to charge or discharge.

KEY FEATURES
- Supply current 3mA
- Battery capacities 5-600Ah
- Load current 100A maximum
- 110mm case with high contrast LCD
- 24v version also available

BM-1 & BM-1 COMPACT SUPPLIED WITH
Display, precision shunt and prefabricated cables for simple DIY installation

NASA METEOMAN
Digital Barometer

Precision high resolution barograph. Easy to use and reliable with low power consumption.

KEY FEATURES
- Wind speed and direction, ambient temperature and barometric pressure
- Chronometer, stop watch, race countdown timer, internal temperature display and battery monitor
- Optional NMEA Wind sensor

NASA WEATHERMAN
RTTY Telex Receiver

Compact Radioteletype weather forecast receiver. Memory can store several thousand lines of text.

KEY FEATURES
- High contrast 16 lines x 40 character display
- Power save auto timer on backlight
- Spectrum screen for simple signal analysis

SUPPLIED WITH
Active micro antenna

NASA BM-1 COMPACT
Battery Monitor
This compact 12v lead acid battery system monitor displays the voltage, current (charge or discharge), state of charge and the time to charge or discharge.

KEY FEATURES
- Supply current 1.5mA
- Battery capacities 5-600Ah
- Load current 100A maximum
- Compact - 125x62x23mm with high contrast LCD
- Also available in white

Furuno

NavNet 3D Navigation System

FURUNO NAVNET 3D

Multifunction Navigation System

A groundbreaking navigation system that introduces new concepts in user interface design that makes this powerful system easy to use. NavNet 3D introduces a new dimension to charting with Full Time 3D chart rendering - choose traditional 2D top-down view or pan/zoom the chart to any 3D angle instantly - there's no delay switching to "3D mode" as with other chartplotters as NavNet 3D operates in this 3D environment at all times. The cutting edge "Time Zero" technology gives instant chart zoom, panning and display mode changes seamlessly with no lag.

With NavNet 3D's true 3D environment, you can see all the information you want - radar overlay, AIS, chart symbols, depth soundings etc. Choose the type of charts you want to view - raster, vector or combine them with Furuno's Satellite Photofusion charts, giving unprecedented control over your charting environment.

FURUNO MFD8 & MFD12

NavNet 3D 8.4in & 12.1in Combi Displays

Choose between an 8.4in or 12.1in colour sunlight-viewable displays with high brightness and anti-reflective glass coating that allows use even in direct sunlight. The low profile design is ideal for flush mounting or can be bracket mounted.

HOT PRODUCT

TimeZero UHD FDF

KEY FEATURES

- Choice of an 8.4in TFT 640x480 pixel (MFD8) or a 12in TFT 800x600 pixel (MFD12) display
- Jeppesen C-Map On Board Charts
- Stores up to 2,000 waypoints, 200 routes of 100 waypoints per route
- Head up, course up, North up, relative motion or true motion display modes
- True 3D environment for a more instinctive chart presentation
- Simple, intuitive operation with Rotokey & Scrollpad
- Dedicated 3D button - toggle between 2D perspective and favourite 3D angle
- High-resolution satellite photography can be fused with raster or vector chart information, viewable in 2D or 3D
- No preset chart scales - zoom to the exact magnification level you wish
- Ultra High Definition (UHD) Digital Radar
- 3D chart-radar overlay (requires sat compass input)
- Furuno Digital Filter (FDF) Fish Finder

FURUNO NAVNET 3D BB

NavNet 3D Black Box System

If NavNet 3D sounds right for you, but you want a bigger display, then the NavNet 3D BB system offers all the features of the MFD8/MFD12, linking a powerful NavNet3D black box processor with a range of LCD displays, from 12.1in up to 19in. Control is via a separate dedicated control keyboard.

NavNet 3D BB is compatible with all the peripherals available to the MFD8 & MFD12 systems - radar, digital sounder, AIS, satellite compass, weatherfax etc.

KEY FEATURES

- 12.1in SVGA marine monitor, 800x600px
- 15in XGA marine monitor, 1024x768px new HD version
- 17in SXGA marine monitor, 1280x1024px
- 19in SXGA marine monitor, 1280x1024px
- Dedicated control keyboard

HOT PRODUCT

TimeZero UHD FDF

FURUNO NAVNET 3D RADAR

Digital Radar

KEY FEATURES

- Enhanced detection both in long and short range
- Enhanced auto tuning, gain and anti-clutter controls
- 48rpm rotation speed for HSC and river applications
- Adaptive rotation speed according to pulse length
- Accurate radar overlay on both 2D and 3D charts
- True Colour Radar shows density of targets
- Radar Guard Zone and Watchman features
- Dual VRM and dual EBL
- Off-centre display capability

Tech info

Furuno UHD Radar Scanners

When ordering your radar system you'll need to specify the antenna you require -

Part No.	Size	Power	Type	Range
DRS2D	19in	2.2kW	RD	24nm
DRS4D	24in	4kW	RD	36nm
DRS4A	3.5ft	4kW	OA	48nm
DRS6A	4ft	6kW	OA	64nm
DRS12A	4ft/6ft	12kW	OA	72nm
DRS25A	4ft/6ft	25kW	OA	96nm

RD - *Radome Antenna (enclosed)*
OA - *Open Array*

FURUNO NAVNET 3D

Upgrade Modules

Add powerful features to your NavNet 3D system with these optional modules.

MODULES AVAILABLE

- **BBWX1** Sirius Satellite Weather Receiver (US only)
- **DFF1** Digital Sounder Module
- **FA30** AIS Receiver
- **FA50** Class A & B AIS Transponder
- **FAX30** Weatherfax & Navtex Receiver
- **PG700** Integrated Heading Sensor
- **SC30**, **SC50** & **SC110** Satellite Compasses

Turn to the back page for pricing and ordering info NOW!

Tacktick
Wireless Instruments

Find out more...
Tacktick Wireless Instruments

BREAK FREE!

EASY TO INSTALL - a typical installation can be done in just a few hours, with no need to drill holes in bulkheads, run cables through headlining or down the mast.

PERFORMANCE ADVANTAGE - with no mast cable, spar weight is reduced and the boat's centre of gravity is lowered.

DATA WHERE YOU NEED IT - with clip in cradles, displays can be positioned anywhere on the boat.

SEALED FOR LIFE - all Tacktick products are totally waterproof (submersible to 10m), which also eliminates condensation. Reliability also increases since wiring faults typically account for 80% of system problems on boats.

TACKTICK T035 SPEED SYSTEM
Entry Level Speed System
The T035 Speed system is the ideal solution for all yachts 35ft or under. A large, wireless 38mm (15in) display shows speed. There are no cables to pull through headlinings or bulkheads, the only requirement is a 12v connection to power the display.

KEY FEATURES
- Boat Speed and Log
- Large clear backlit digital display
- Completely waterproof to 10 metres
- Simple installation, easy calibration
- Show depth on the same display - simply add a T912 Depth Transducer

SUPPLIED WITH
Speed transducer, hull transmitter and display unit

TACKTICK T034 DEPTH SYSTEM
Entry Level Depth System
The T034 Depth system is the ideal solution for all yachts 35ft or under. A large, wireless 38mm (15in) display shows depth. There are no cables to pull through headlinings or bulkheads, the only requirement is a 12v connection to power the display.

KEY FEATURES
- Depth & Sea Temp
- Large clear backlit digital display
- Completely waterproof to 10 metres
- Simple installation, easy calibration
- Show speed on the same display - simply add a T911 Speed Transducer

SUPPLIED WITH
Depth transducer, hull transmitter and display unit

TACKTICK T106 REMOTE DISPLAY
Handheld Wireless Remote Display
Not just a remote control, this is an independent Micronet wireless palm sized display which shows all system data and also incorporates a rolling road and performance pages for displaying uploads from tactical software, and it can function as a remote control for Micronet displays. Add as many handsets as needed for key crew members.

KEY FEATURES
- Repeats a wide range of data
- Palm sized, easy to hold
- Totally multifunction
- Graphic multi-line display
- Solar powered with integrated lithium batery
- Can be used with other manufacturers' equipment

SUPPLIED WITH
Remote display, universal wireless NMEA interface

TACKTICK T038 SPEED/DEPTH/WIND
Entry Level Cruise Pack System
Ideal for either replacing existing instruments, first time installations or new-builds. Wireless data transfer means the system is simple to install with no wires down the mast or through the deck and just 12v required for the displays and speed/depth pod.

KEY FEATURES
- Boat Speed & Log
- Depth & Sea Temp
- Wind Speed & Direction
- Cost effective solution
- Large clear backlit digital displays
- Completely waterproof to 10 metres

SUPPLIED WITH
3xDisplays, hull transmitter, triducer, masthead unit

TACKTICK T033 WIND SYSTEM
Entry Level Wind System
The T033 Wind system is the ideal solution for cruising yachts 35ft or under. Wind speed and direction information is delivered wirelessly from the wind transmitter, whilst the display itself is powered by your boat's 12-volt battery.

KEY FEATURES
- True and apparent wind speed and direction (true wind requires boat speed)
- Large clear backlit analogue display
- Completely waterproof to 10 metres
- Simple installation, easy calibration

SUPPLIED WITH
Wind transmitter and display unit

TACKTICK T108 CRUISE PACK
Wireless Speed, Depth, Wind System
This great value package is ideal for sailboats of all sizes, coming complete with a 'digital analogue' and a dual digital display.

KEY FEATURES
- Speed, Depth, Distance
- Wind Speed and Direction
- Calculated functions
- Compatible with other manufacturers via NMEA
- Solar powered with integrated lithium batteries
- Efficient power consumption - units can run autonomously for up to 300 hours

SUPPLIED WITH
Dual Digital Display, Analogue Display, Speed and Depth transducers, Wind Transmitter, Hull Transmitter

TACKTICK T100 SPEED/DEPTH
Bidata System
The Tacktick Speed/Depth system is a compact solution for those on a budget or where space is limited. The single display shows boat speed, depth and distance travelled.

KEY FEATURES
- Speed, Depth and Distance
- Solar powered with integrated lithium battery
- Efficient power consumption - units can run autonomously for up to 300 hours
- Easy to expand system

SUPPLIED WITH
Dual digital display, through hull speed and depth transducers, hull transmitter

TACKTICK T101 WIND
Wind System
The wireless T101 Wind System does away with all the inconvenience of installing a traditional wind system - with no mast cable the mast doesn't need to be stepped, plus the weight saved improves the yacht's performance. The display shows wind direction (360° and close hauled) and wind speed.

KEY FEATURES
- Large clear 'analogue' display
- Solar powered with integrated lithium battery
- Efficient power consumption - units can run autonomously for up to 300 hours

SUPPLIED WITH
Wind transmitter and display unit

Raymarine

E Series Combi Displays

RAYMARINE e7 / e7D

Touch Screen Multifunction Display

The Raymarine e7 is a feature rich MFD that sets a new standard for ease of use, performance, and connectivity. A networking wonder, the e7 breaks new ground with Wi-Fi streaming to Apple iPhones (4+) and iPads.

Transform your Apple iPhone (4 and above), or iPad 1 and 2 into a remote Raymarine e7 multifunction display viewer! Using the Raymarine e7's built-in Wi-Fi and the Raymarine Viewer App, you can view the entire Raymarine e7 display simultaneously, thanks to the e7's video streaming capability. View charts, sonar, radar and thermal night vision from anywhere onboard, right in the palm of your hand.

User friendly screens and a clear menu structure enable immediate access to the most relevant functions. Easily swipe between homescreen pages and create your own custom navigation pages by simply dragging and dropping the application icon to the desired location on the page.

The e7D chartplotter-fishfinder features a built-in dual frequency HD Digital sonar capable of depths down to 3,000 feet which targets fish and depicts structure with amazing clarity. Connect the Raymarine e7D chartplotter-fishfinder to optional through-hull, in-hull or transom transducers.

KEY FEATURES

- HybridTouch™. Full touch screen interaction or total keypad control - your choice
- Home screen. Simple application selection and page customisation
- Fast. Equipped with three processors including a dedicated graphics processor
- Wi-Fi streaming to Apple iPhones (4 and above) and iPads (1 and 2)
- Network up to six displays with SeaTalk*HS*
- Bluetooth integration
- e7D HD Digital Chartplotter-Fishfinder model

Radar display

RAYMARINE RCU-3

Remote Control Unit

Stay in command of the e7 without letting go of the wheel! Bluetooth wireless control from up to 15ft.

KEY FEATURES

- Attaches directly to steering wheel
- Change range scales, control music, switch between apps, mark waypoints etc
- Lanyard mount option (supplied)

RAYMARINE SR100

Sirius Weather Receiver (US Only)

Graphically display up to the minute state-of-the-art weather forecast information and animated weather forecasts on your Raymarine system. A monthly Sirius Marine Weather subscription is required.

KEY FEATURES

- WSI NowRad® Weather Radar
- Lightning and Storm Tracks
- Sea Surface Temperature
- Warnings, observations and buoy reports
- Surface Pressure, Wind and Wave forecast and more

RAYMARINE DSM30 & DSM300

HD Digital Sounder Module

Add HD Digital sounder technology to the C and E Series with the DSM30 (600W) and DSM300 (1000W) 50/200kHz dual frequency digital sounder modules. See table on right for the transducers available.

KEY FEATURES

- hsb2 compatible
- HD Digital technology virtually eliminates clutter
- Auto Adaptive Gain control - no adjustment required
- Digitally Adaptive Transmitter Receiver with infinite receiver bandwidth settings and digital filter
- A-Scope (Real-Time Display)
- Auto or manual zoom (x2, x4 or x6)
- Bottom lock and white line

SUPPLIED WITH

Transducers must be specified. If fitting to an E Series a SeaTalk*hs* crossover coupler or SeaTalk*hs* Network Switch is required

RAYMARINE AIS350

Black Box AIS Receiver

Dual-channel AIS receiver which recieves Class A and Class B broadcasts.

KEY FEATURES

- SeaTalk*ng*, NMEA0183 and USB 2.0 connections
- NMEA2000 compatible
- Inbuilt NMEA0183 multiplexer with normal and high-speed input/output for 3rd party integration

RAYMARINE AIS650

Black Box Class B AIS Transceiver

Class B AIS transceiver allowing you to transmit your data to other AIS equipped vessels, and receive their data for viewing on your Raymarine multifunction display's radar or chartplotter screen.

KEY FEATURES

- Dual channel receivers
- Dedicated 50 channel RAIM compliant GPS receiver
- Silent mode turns off transmitter while still enabling you to see transmissions from other vessels
- SeaTalk*ng* integration with C Series Widescreen, E Series Widescreen and G Series systems
- USB 2.0 plug-and-play connection to PCs
- SD Card Slot for recording of AIS data.
- Inbuilt NMEA multiplexer simplifies integration with older displays, VHF radios and 3rd party devices

Tech info

Raymarine Echosounder Transducers

Suitable for the Digital Sounder Modules and most stand-alone fishfinders

P319	Plastic thru hull 600W, 50/200kHz Depth only	
B744V	Bronze thru hull 600W, 50/200kHz Depth, speed, temp Also available with long stem B744VL (shown)	
P66	High speed transom mount 600W, 50/200kHz Depth, speed, temp	
P79	Adjustable in-hull 600W, 50/200kHz Depth only	
SS555	Stainless steel thru hull 600W, 50/200kHz Depth only	
B256	Bronze thru hull high perf' 1000W, 50/200kHz Depth, temp	
B260	Bronze thru hull v high perf' 1000W, 50/200kHz Depth, temp	

Turn to the back page for pricing and ordering info NOW!

Raymarine
E Series & C Series Displays

RAYMARINE E SERIES WIDESCREEN
9, 12 & 14in Colour Touch Screen Combi Displays

E Series Widescreen is one of the most flexible, technically advanced, and easy to use multi-function touch screen navigation displays. HybridTouch™ gives users the flexibility of touch screen control alongside traditional hard keys - a seamless mix of both methods.

KEY FEATURES
- Network up to 5 E Series displays via SeaTalkhs
- Optically bonded super high resolution displays
- Inbuilt tutorial guides you through the features
- Full 'qwerty' on-screen keyboard
- Intuitive touch-by-touch manual route building
- 48rpm high speed radar scanning
- Fully customisable screen layouts
- Rugged IPX6 waterproof housing
- Composite Video In
- Optional on board cameras
- Smartpilot X Series autopilot control
- Compatible with Digital Radar, Digital Sounder Module, AIS and SIRIUS Weather Module

SUPPLIED WITH
Power & interface lead

RAYMARINE C SERIES WIDESCREEN
9, 12 & 14in Colour Combi Displays

The C Series Widescreen expands the capabilities of the original multifunction display with larger, brilliant displays, increased performance, expanded networking and video integration. Available in 9, 12 and 14in display sizes the C Series now offers dual station networking capability, a high sensitivity internal GPS receiver and high quality embedded charts. The optically bonded LCD display dramatically improves contrast, eliminates condensation and improves readability.

KEY FEATURES
- Internal high sensitivity GPS sensor eliminates need for an external antenna for most installations
- Embedded chart options: Europe, Coastal US, Latin America-Asia-Oceania
- Also compatible with Navionics Gold and Platinum
- Low profile flush mounting
- Rugged IPX6 waterproof housing
- Dual display networking via SeaTalkhs
- Sunlight viewable, super high resolution displays :
  C90W: WXGA resolution (800x480)
  C120W: WXGA resolution (1280x800)
  C140W: WXGA resolution (1280x800)
- Intuitive softkeys for essential navigation functions
- Processors are 2.5 times faster
- Faster pans & screen refresh
- On board graphics accelerator
- Smoother 3D graphics and video
- Unicontrol™ integrates 'OK', Cursor & Rotary controls into one
- Highly customisable user interface with multiple page and split window combinations
- Composite Video In
- Optional on board cameras
- Smartpilot X Series autopilot control
- Compatible with Digital Radar, Digital Sounder Module, AIS and SIRIUS Weather Module

SUPPLIED WITH
Power & interface lead

RAYMARINE HD & SHD DIGITAL
Radar Scanners

Raymarine's exclusive Super HD Digital technology gives amazingly clear radar images with unmatched target separation and lifelike presentation that virtually eliminates noise, clutter and false echoes. Super HD Digital processing delivers a radar image that can't be matched by similar analogue or digital radar systems, with a level of performance that rivals that of systems of more than twice the size and power output.

RADOME KEY FEATURES
- Narrow horizontal beam angle - 4.9° for 18in and 3.9° for 24in
- Custom designed LNC (Low Noise Converter)
- Lowest noise on the front end of the system, superior sensitivity and weak target acquisition
- Greatest number of pulse lengths, pulse repetition frequencies and IF bandwidths
- Optimises range discrimination and target detection performance over the entire range scale
- Quieter belt drive operation
- Superior auto functions
- Thin interconnect cable (12.3mm)

OPEN ARRAY KEY FEATURES
- Twice the performance of analogue radar systems
- Reduces the effective horizontal beam width giving the target resolution of a much larger radar array
- Adaptive digital receiver automatically adjusts to changing environmental and sea conditions for a dramatically clearer picture
- Fast digital receiver processor
- 256 colour target levels
- Dual range capable
- Thin interconnect cable (12.3mm)
- 12 or 24 volt operation

Tech info

Raymarine Radar Scanners
When ordering your radar system you'll need to specify the antenna you require -

Part No.	Size	Power	Type	Range
RD418D	18in	4kW	RD	48nm
RD424D	24in	4kW	RD	48nm
RD418HD	18in	4kW	RD	48nm
RD424HD	24in	4kW	RD	48nm
A1048HD	48in	4kW	OA	72nm
A1048SHD	48in	4kW	OA	72nm
A1072HD	72in	4kW	OA	72nm
A1072SHD	72in	4kW	OA	72nm
A3048HD	48in	12kW	OA	72nm
A3072HD	72in	12kW	OA	72nm

RD - *Radome Antenna (enclosed)*
OA - *Open Array*

Digital and HD Domes are only compatible with C Wide, E Wide and G Series systems

Raymarine
Instruments

RAYMARINE ST70
Instrument System
Multifunction Colour display designed for simple setup and customisation. ST70's capabilities include depth, speed, wind, navigation data, autopilot status, engine monitoring and more via the SeaTalk*ng* data bus. Waterproof to CFR-46 standard.

KEY FEATURES
- Full colour graphical displays, virtual analogue displays and histograms
- 8 user defined instrument data pages, 16 layout options for each data page
- High contrast sunlight viewable TFT colour display with wide viewing angles
- Day and Night mode colour palettes
- Easily retrofitted to ST60 surface mount installations
- Compatible with SeaTalk, SeaTalk2, SeaTalk*ng* and NMEA 2000 devices
- Intelligently converts first-generation SeaTalk data to SeaTalk*ng*

SUPPLIED WITH
- Snap-on sun cover, surface and flush mounting kits, SeaTalk*ng* backbone cable, SeaTalk adapter cable-

RAYMARINE ST70+
Instrument System
6.5in wide angle high-visibility displays. Create a system with SeaTalk*ng* sensors for wind, speed, depth and NMEA2000 engine systems.

KEY FEATURES
- Night and Inverse lighting modes
- User defined instrument pages
- Analogue, digital and historical displays
- Configure as instrument or autopilot display

RAYMARINE i70
Instrument System
Packed full of powerful features but very easy to use, the i70 instrument family consists of the Raymarine i70 multifunctional instrument head and two autopilot control heads - one tailored for powerboaters (p70R) and one for sailors (p70). The whole system is compatible with the latest SeaTalk*ng* tranducers, as well as NMEA 2000 and SeaTalk1 sources.

The whole system is very easy and intuitive to set up and use, thanks to Raymarine's exclusive LightHouse User Interface

HOT PRODUCT

i70 KEY FEATURES
- 4in LCD display with 160º viewing angle
- Anti-reflective coating for improved visibility in bright sunlight
- LightHouse user interface is simple and quick to use
- AIS repeater
- Display Wind, Speed, Depth, Tridata, Engine (NMEA 2000), Environmental (NMEA 2000), Fuel (NMEA 2000) and navigation data
- Low power consumption - typically 132mA/ 1.6W

NEW FOR 2012

p70/p70R KEY FEATURES
- Uses Raymarine's easy to use LightHouse user interface
- Start up wizard helps you configure the pilot quickly and easily
- Button or rotary control options for sail and power applications
- Supports Pattern, Track, Wind Vane, Power Steer and Jog Steer modes
- Display the pilot information in different formats
- Support for multiple data sources
- SeaTalk*ng*/ NMEA 2000 and SeaTalk1 connectivity (no bridging required)

RAYMARINE ST60+ GRAPHIC
Multifunction Dot-Matrix Display
Versatile multifunction dot matrix display that can show any data on the SeaTalk network bus.

KEY FEATURES
- Intuitive Chapter and Page control keys
- Up to seven user configurable favourites pages
- View and control multiple data sources
- Large digit, graphical or multi-line format displays
- Single, split or quad screen displays

RAYMARINE ST60+ SPEED
Speed/Log System

KEY FEATURES
- Boat speed 0-60kts
- Log & Resettable Trip
- Sea temperature
- Pilot Status display*
- Max & avg speed, VMG*
- Speed over ground*
- Stopwatch/lap timer
- Race start timer

RAYMARINE ST60+ TRIDATA
Combi System

KEY FEATURES
- Combined Speed and Depth multi-line display
- Boat speed 0-60kts
- Water depth 0.8-180m
- Speed over ground
- Automatically switches depth sensors when depth sounder module is detected, to avoid interference

RAYMARINE ST60+ DEPTH
Depth System

KEY FEATURES
- Water depth 0.8-180m
- Depth trend indicator
- Transducer, waterline or keel offset
- Pilot status display*
- Shallow, deep & anchor alarms

RAYMARINE ST40
Entry Level Instrument System
Simple and elegant, with large digit LCD displays. Optional snap-on bezels, three levels of back lighting and waterproof to USCG-CFR 46. SeaTalk compatible, all necessary transducers are included.

Speed

Depth

Bidata

Wind

Compass

RAYMARINE ST60+ COMPASS
Compass System

KEY FEATURES
- Heading
- Average course
- Course Over Ground*
- Man overboard display
- Keypad heading alignment

RAYMARINE ST60+ WIND
Wind System

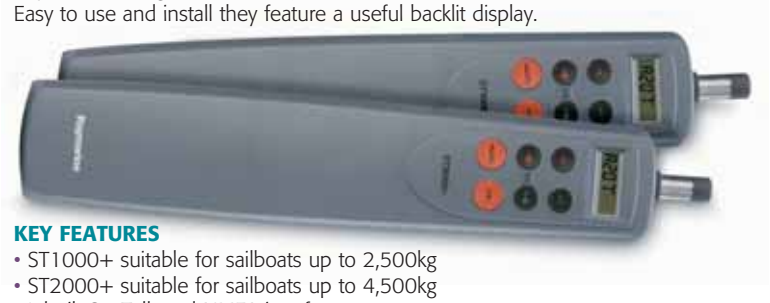
KEY FEATURES
- Apparent wind speed
- True wind speed*
- True wind direction*
- Max wind speed alarm
- Beaufort, knots, m/sec
- Master or repeater

**Requires relevant data present on SeaTalk*

Turn to the back page for pricing and ordering info NOW!

Raymarine
Cockpit & Wireless Autopilots

RAYMARINE ST1000+/ST2000+
Cockpit Tiller Autopilot
Raymarine's range of tiller autopilots are suitable for most tiller-steered sailboats. Easy to use and install they feature a useful backlit display.



KEY FEATURES
- ST1000+ suitable for sailboats up to 2,500kg
- ST2000+ suitable for sailboats up to 4,500kg
- Inbuilt SeaTalk and NMEA interface
- Autopilot and navigation info display
- Weatherproof design, 2-stage pushrod seal
- Low power consumption
- Intelligent course holding software

ALSO CONSIDER
- Eagle ETP10, ETP22, ETP33

Add second station control to your ST1000, ST2000 and SPX5 Cockpit Pilots by adding the wireless S100 controller.

RAYMARINE SPX5/SPX5GP TILLER PILOT
High Performance Cockpit Tiller Autopilot
The ultimate tiller autopilots, with a fixed control head and compass unit and two very powerful drive unit options but still with low power consumption.

KEY FEATURES
- For sailboats up to 6,000kg (SPX5) and 7,500kg (SPX5-GP)
- Inbuilt SeaTalk and NMEA interface
- Weatherproof design with two stage pushrod seal
- Intelligent course holding software

RAYMARINE SPX5 WHEEL PILOT
Cockpit Wheel Autopilot
Fully enclosed wheel mounted autopilot - no belts or untidy trailing wires. Features wheel mounted drive and a fixed control unit with large backlit display. The convenience of an inboard pilot at the cost of a cockpit pilot.

KEY FEATURES
- Low power consumption
- Backlit display and keypad
- SeaTalk and NMEA interface
- Navigational information repeater
- Intelligent course holding software
- Suitable for sailboats up to 7,500kg
- Can be used on hydraulically steered boats *(with optional rudder feedback)*

SUPPLIED WITH
Control unit, drive/gearbox unit, fluxgate compass and cabling

Optional Extras
Add second station control to your ST1000, ST2000 and SPX Cockpit Pilots by adding the wireless SmartController.

RAYMARINE SMARTPILOT X SERIES
Inboard Autopilot System
Raymarine's Smartpilot X range of inboard autopilots offer more power and greater steering accuracy with advanced steering software and powerful features. The ST70 autopilot control enables you to take full advantage of the SmartPilot X Series capabilities and performance. Each system must include at least one ST70 autopilot control, but additional ST70, ST6002, ST7002 or ST8002 control heads can also be added for multi-station control. The pilot can also be engaged directly from a Raymarine combi display.

SMARTPILOT X KEY FEATURES
- Complete all in one box autopilot
- Linear, hydraulic and sterndrive options
- Inbuilt rate gyro sensor
- AST (Advanced Steering Technology) and SmartSteer gives superior steering in all conditions and speeds
- Smart Rudder Sense eliminates rudder feedback unit
- SeaTalkng compatibility with ST70 instruments
- Control the pilot from your Raymarine combi display
- Automatic fishing patterns

ST70 AUTOPILOT CONTROL KEY FEATURES
- Unlock the full functionality of the SmartPilot X system
- 3.5in sunlight viewable colour display
- SeaTalkng and NMEA2000 interface
- Digital, compass or 3D isometric displays
- Surface or flush mount

SUPPLIED WITH
Control, course computer, gyro compass, drive.

RAYMARINE ST6002
Second Station Control Head
The ST6002 is a basic optional secondary control unit that can be used alongside the main ST70 control head. It features a large clear display with an analogue rudder angle indicator.

KEY FEATURES
- Inbuilt SeaTalk & NMEA interface
- Autopilot, navigation and instrument displays
- Multi station control options
- Remote control ST60/ST60+ instruments

RAYMARINE ST7002
Second Station Control Head
Optional secondary control head takes all the features and performance of the ST6002 and adds a multifunction control unit with large, clear LCD display.

KEY FEATURES
- Large display
- Analogue rudder angle indicator
- Inbuilt SeaTalk & NMEA interface
- Autopilot, navigation and instrument displays
- Multi station control options
- Remote control ST60/ST60+ instruments

RAYMARINE ST8002
Second Station Rotary Control Head
Optional secondary control head with all the features of the ST7002, but with a large, easy to use rotary control knob and power steer option.

KEY FEATURES
- Large display
- Inbuilt SeaTalk & NMEA interface
- Autopilot, navigation and instrument displays
- Multi station control options
- Remote control ST60/ST60+ instruments

Communications

RAYMARINE RAY49

DSC VHF Radio

The Ray49 is a compact, rugged, submersible (IPX7) VHF radio with easy-to-use rotary controls for volume, squelch and menu operation, a large 7-segment, back-light LCD display and the fistmike includes integrated channel controls and an inbuilt speaker. The receiver offers excellent noise rejection and best-in-class audio output. Features four scan modes modes and programmable scanning.

KEY FEATURES

- Class D DSC - distress key transmits GPS position and a digital mayday
- NMEA0183 input for chartplotter position polling
- Programmable Scanning, dual and Tri Watch
- Quick Access channel 16/9 Key
- NOAA Weather Alert (US only)
- External loudspeaker option
- Available in gray or white
- Optional flush mount kit

SUPPLIED WITH

Radio, microphone, sun cover, mounting bracket, power/speaker/data cable

RAYMARINE RAY55E

DSC VHF Radio

The Ray55E features rotary controls for volume, squelch and menu operation and an extra large LCD display. The fistmike includes integrated channel controls and an inbuilt speaker. The Ray55E is also expandable to 2 stations with full duplex intercom capability using the optional Raymic Full Function Handset.

KEY FEATURES

- Position, COG & SOG display via NMEA input
- Chartplotter position polling
- Favourite channel softkeys
- Dual Channel Display shows active and stand by channel simultaneously
- All Scan, Saved (Memory) Scan, Priority All Scan and Priority Saved Scan
- Submersible (IPX7) rugged housing
- Low profile bezel, optional flush mount kit

ALSO AVAILABLE

- Ray218 - Adds an inbuilt 30 Watt Hailer with "Listen Back" capability and automatic foghorn to the features of the Ray55E

SUPPLIED WITH

Radio, microphone, sun cover, mounting bracket, power/speaker/data cable

RAYMARINE RAY240E

Modular DSC VHF Radio

Modular multi-station system with separate transceiver unit that can be mounted out of sight, with only the waterproof handset and remote loudpeaker on show. Each handset provides full VHF and DSC functionality plus intercom facility between stations.

- Full function alphanumeric keypad
- Programmable scan and tri-watch
- Loudspeaker with on/off switch and volume control
- Optional fog horn/loudhailer

SUPPLIED WITH

One handset, loudspeaker, transceiver unit, cables

RAYMARINE RAYMIC

Remote Station Handset

Add full function remote control of the Raymarine Ray55 and Ray218 VHF radios with the Raymic remote station handset.

KEY FEATURES

- Full control of all features and functions of the Ray55 and Ray218 VHF radios
- Extra large dot matrix LCD
- Speaker microphone
- Submersible (IPX7 Standard)
- Full duplex intercom between stations

SUPPLIED WITH

Handset, cradle

RAYMARINE 33STV

Satellite TV Antenna System

The 33STV makes satellite TV reception available to boats as small as 20ft in length. 33STV is HD compatible and comes standard with the Multi-satellite Interface Module which con-veniently switches the system across 3 satellites automatically, providing uninterrupted channel surfing just like a home satellite TV system. The antenna control unit can connect with up to 6 onboard satellite receivers via USB.

KEY FEATURES

- High performance compact antenna
- Only 14in diameter, weighs less than 4.5kg
- Channel Surf without Delay - Fast Tracking
- Built-in HD Module
- Wide Power Supply Range: DC 9V~ 31V
- Easy & Simple Installation
- NMEA 0183 GPS Interface

RAYMARINE 37STV

Satellite TV Antenna System

If you want the benefits of satellite TV onboard, but you've always thought your boat was too small, then the 37STV system is the solution, which will fit on most boats 25-40ft in length.

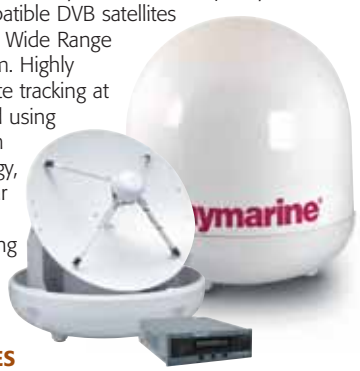
KEY FEATURES

- All the key features in a small boat package
- Footprint of only 14.5in, weighs only 8.6kg
- Watch on TV, monitor, G Series or E Series display
- Engineered for the harshest marine environments
- Quickly acquires signals from all DVB compatible service providers

RAYMARINE 45STV & 60STV

Satellite TV Antenna System

For DVB satellite TV receivers, the compact, fully automatic stabilised antenna provides uninterrupted reception in almost any conditions. It quickly identifies compatible DVB satellites using a unique Wide Range Searchalgorithm. Highly accurate satellite tracking at sea is achieved using Dynamic Beam Tilting technology, ensuring a clear picture in the most challenging conditions.



KEY FEATURES

- 45STV footprint only 19.2in, weight is only14kg
- 23.5in 60STV for vessels of 50ft and above offers greater signal range and improved reception
- Watch on TV, monitor, G Series or E Series display
- Dual LNB Design - watch the weather at the helm while others watch TV down below
- Supports multiple receivers

ALL MODELS SUPPLIED WITH

Antenna, Antenna Control Unit. You will need to purchase and activate a DVB compatible satellite TV receiver with the provider of your choice and provide a television monitor or other suitable video display

Turn to the back page for pricing and ordering info NOW!

Humminbird

Fishfinders & Chartsonars

HUMMINBIRD 570x DI

5in Dual Beam Mono Fishfinder

Outstanding performance and incredible value come together in the Humminbird 570x DI. Take advantage of the Down Imaging and DualBeam Sonar with exclusive Humminbird SwitchFire technology, sensitive enough to track a jig down to 70 feet and separate fish as close as 2.5in apart. Enable Humminbird's Fish ID+ target identification system to convert sonar returns into easy-to-read icons. In-dash mount, or use the Tilt & Swivel Disconnect Mounting System.

KEY FEATURES

- Display: 5in 640x320, FSTN LCD 16 Level Grayscale
- Sonar: Dual Beam 455/80/200kHz
- Power: 2400W PTP, 250W RMS
- Depth: 1000ft/300m

HUMMINBIRD PIRANHAMAX 170x & 190cx

3.5in & 4in Ultra-Compact Fishfinders

With one touch you can take advantage of the advanced PiranhaMAX Series fishfinders. Unlock the power of Fish ID+, fish alarms, depth alarms and zoom. You won't believe how easy it is to put the high-performance sonar to work for you. Simply mount your PiranhaMAX in-dash, and let the Transflective Color TFT or contrast enhanced, Clear Edge Grayscale display show you everything, even in direct sunlight!

KEY FEATURES PIRANHAMAX 170x

- Display: 4in 240x160, FSTN LCD 8 Level Grayscale
- Sonar: DualBeam 200kHz/83kHz
- Power Output: 1600W PTP 200W RMS
- Depth: 800ft/250m

KEY FEATURES PIRANHAMAX 190cx

- Display: 3.5in 320x240, 256 colour TFT
- Sonar: SingleBeam 200kHz
- Power Output: 1600W PTP 200W RMS
- Depth: 800ft/250m

HUMMINBIRD 788cxi HD

5in Combination Chartplotter and Sonar

The 788cxi HD DI Combo features a Best-In Class High Definition 640x640 5in display, DualBeam PLUS and Down Imaging sonar with 4000 Watts PTP power output, GPS Chartplotting and advanced Fishing System capabilities. In addition, it includes dual card slots for maps and saving waypoints, as well as three programmable preset buttons to save your favorite views.

KEY FEATURES

- 5in 640x640 256 colour TFT
- DualBeam PLUS 455/80/200kHz
- 4000W PTP, 500W RMS
- Depth 1000ft/300m
- 50 channel GPS
- Trackplotting, chartplotting
- 3000 waypoints, 50 routes
- 50 tracks with 20,000 points each
- Dual SD Card Slots
- Upgradeable Software
- Optional Weathersense, Wireless Sonar link, CannonLink & InterLink network modules
- Navionics Gold & HotMaps compatible

HUMMINBIRD 597cxi HD DI

5in Combination Chartplotter and Sonar

Features a Best in Class brilliant colour 640x640 5in display. Down Imaging and Single Beam Sonar with 4000 Watts power output, 50 channel internal GPS Chartplotting, a card slot for maps and saving waypoints and a Tilt & Swivel Quick Disconnect Mounting System. The new design also allows drop-in replacement capability for competitive in-dash models.

KEY FEATURES

- Freeze Frame with ability to Mark Structure on Sonar
- Real Time Sonar RTS Window
- Selective Fish ID
- Sonar Echo Enhancement
- Split Screen Zoom
- Custom Digital Readout Selection
- Large Digits View
- Selectable Background Colour
- X Press Menu System

HUMMINBIRD 385cxi

3.5in Combination Chartplotter and Sonar

The Humminbird 385cxi is designed for those who demand top-of-the-line technology, but don't have space for a bigger fishfinder. With oceans of new features, the 300 Series performs way beyond its size, and is right at home in the most extreme fishing situations. With exclusive SwitchFire™ technology you'll get the most out of the DualBeam Sonar that gives you wide coverage with the best picture of the bottom. It's powerful sonar technology built into a pint-size package. With internal GPS and built-in UniMap™ you'll be able to pinpoint your position with ease. A built-in card slot allows you to upgrade with a Navionics chart card for enhanced navigation and map detail.

KEY FEATURES

- 3.5in 320x240 256 colour TFT
- Sonar: DualBeam 200kHz/83kHz
- Power Output: 2400W PTP, 300W RMS
- Depth: 1000ft/300m
- Available as a portable version

HUMMINBIRD 798cxi HD SI

5in Combination Chartplotter and Side Imaging Sonar

This powerful fishfinder is packed with professional technology. With exclusive Humminbird SwitchFire, Side Imaging and Down Imaging and DualBeam PLUS dual frequency technology, you have more fishfinding options than ever. It's the first sonar that adapts with your fishing conditions. Detail explodes off the 5in display, with amazing 640x640 pixel clarity, unbeatable colour and contrast. Programmable preset buttons put your favorite views at your fingertips. Mount it in-dash, or use the Tilt & Swivel Quick Disconnect Mounting System. Add Navionics Gold or Hotmaps cartography using the dual SD card slots.

KEY FEATURES

- 5in 640x640 colour TFT display
- DualBeam PLUS™ 200/83kHz
- Side Imaging and Down Imaging 455kHz, 180° total coverage
- 4000W PTP, 500W RMS
- Depth 100ft/30m (SI),1500ft/450m
- Memory: Dual SD Card Slots
- Upgradeable Software
- Navionics Gold & HotMaps compatible

Humminbird, Geonav

Chartsonars and Chartplotters

HUMMINBIRD 898cx SI

7in Widescreen Chartplotter and Side Imaging Sonar

This impressive combi unit is a blend of form and function, with a generous 7in screen, featuring a 16:9 aspect ratio and incredibly clear picture quality. With Humminbird Side Imaging, Down Imaging and SwitchFire Sonar, the 800 Series puts you in control of the most versatile fishfinding system on the water. Exclusive Humminbird ContourXD cartography, GPS track and chartplotting and any of the Humminbird network modules.

KEY FEATURES

- 7in 800x480 TFT display
- DualBeam PLUS™ 200/83kHz
- HD Side Imaging and Down Imaging 455/800kHz, 180° total coverage
- Optional 200/50kHz transducer
- 8000 Watts (PTP), 1000 Watts (RMS)
- 150ft/45m (SI),1500ft/450m, 3000ft/900m with optional 50kHz transducer
- Memory: Dual SD Card Slots
- Upgradeable Software

HUMMINBIRD 998cx SI

8in Widescreen Chartplotter and Side Imaging Sonar

With the screen's 16:9 aspect ratio, crystal-clear pixel resolution, and Humminbird Side Imaging, Down Imaging and SwitchFire Sonar systems, these high-performance units give serious anglers a huge on-the-water advantage. The widescreen display makes for easy-to-read split screen viewing of sonar displays or the incredibly detailed optional cartography. Add on the powerful HumminbirdPC software, and you've got an all-in-one tool to dominate the competition.

KEY FEATURES

- 8in 800x480 TFT display
- DualBeam PLUS™ 200/83kHz
- HD Side Imaging and Down Imaging 455/800kHz, 180° total coverage
- Optional 200/50kHz transducer
- 8000 Watts (PTP), 1000 Watts (RMS)
- 150ft/45m (SI),1500ft/450m, 3000ft/900m with optional 50kHz transducer
- Memory: Dual SD Card Slots
- Upgradeable Software

HUMMINBIRD 1198cx SI

10.4in Widescreen Chartplotter and Side Imaging Sonar

The 1198cx SI Combo features a huge 10.4in display, Side Imaging and DualBeam PLUS sonar with up to 8000 Watts PTP* power output, GPS Chartplotting with built-in ContourXD maps, and advanced Fishing System capabilities. Includes unit cover and in-dash mounting kit. Maximise your angling experience with the Humminbird 1198c SI Combo fishfinder system.

** Requires the use of the optional 1KW (8000watt) transducer.*

KEY FEATURES

- 10.4in 800x600 TFT display, 65,000 colours
- DualBeam PLUS™ 200/83kHz
- HD Side Imaging and Down Imaging 455/800kHz,180° total coverage
- Up to 8000 Watts (PTP), 1000 Watts (RMS)
- Optional 200/50kHz transducer
- Max Depth 450m/1500ft (900m/3000ft with optional 50kHz transducer)
- Max Depth (Side Imaging) 150ft/45m
- Memory: Dual SD Card Slots
- Upgradeable Software

GEONAV 3/3S

Handheld GPS Navigator

The Geonav 3 & 3S are powerful but compact handheld marine GPS navigators with Navionics compatibility (Gold recommended, but will take some Platinum+, check with Navionics) and it also functions as an in-car satnav. Clear, bright 2.2in colour TFT display. The Geonav 3S model also includes a magnetic compass and barometer.

KEY FEATURES

- Compact, lightweight all in one solution
- 2.2in transflective TFT display (240x320 pixel)
- Navionics Gold and Platinum+ compatible
- Rechargeable lithium battery, 9hr battery life

SUPPLIED WITH

NMEA power supply cable, Quick-mount bracket with snap-on socket, sun cover

GEONAV 5 TOURING

5in Colour Navigator/Fishfinder

An innovative unit which combines a chartplotter, fishfinder and in-car navigator in one package. Features an inbuilt 12 channel WAAS-EGNOS GPS and world map, just add the F170 black box sounder for fishfinder functionality.

KEY FEATURES

- Marine chartplotter, fishfinder and in-car satnav
- Navionics Land&Sea, Platinum and Land & Sea Platinum chart compatible
- Save unlimited markers, routes and waypoints on CompactFlash cartridge

SUPPLIED WITH

NMEA power supply cable, Quick-mount bracket with snap-on socket, sun cover

GEONAV 7 WIDE

7in Colour Chartplotter/Fishfinder

Featuring a sunlight view transflective TFT LCD display guaranteed against fogging and condensation and an inbuilt 12 channel GPS. Data windows are optimised for intuitive control and the split screen function enables chart and fishfinder data to be displayed simultaneously. The unit can be linked to the Geonav F170 black box fishfinder.

KEY FEATURES

- 2D or 3D cartography, built-in world map
- Waterproof (IPX6), panel, bracket or flush mounting
- Acoustic Anchor Alarm
- Autozoom™, Easy View
- EBL/VRM, Runway display
- Overzoom and Screen Amplifier™

SUPPLIED WITH

NMEA power supply cable, Quick-mount bracket with snap-on socket, sun cover

Turn to the back page for pricing and ordering info NOW!

Echopilot
Forward Looking Sonar

ECHOPILOT 2D
Colour Forward Looking Sonar

The EchoPilot FLS 2D offers all the best features of the EchoPilot forward sonar range, now displayed on a full colour transflective TFT LCD with a 7in viewable area. The benefits of colour include being able to gain more information about the nature of the sea bed. Stronger echoes give different colours. Alternatively the colours can be set to correspond to depth. Simple digital sounders show historical data, they may show a depth which is 10-15sec out of date and represents the seabed your boat passed over a hundred metres ago. The digital depth on the 2D is an average of the first one third of the screen ahead and so is far closer to the reality of what is under your boat right now.

KEY FEATURES
- Max Range Ahead 200m
- Max Depth Range 100m
- Digital Depth
- Forward Alarm
- Optional Swivel Bracket
- Multiple Display Options

SUPPLIED WITH
Power cable, data cable, standard plastic transducer (bronze professional model also available), through-hull fitting and blanking cap, protective cover

ECHOPILOT 3D
BB Colour Forward Looking Sonar

Black Box FLS which displays a 3D representation of the waters ahead of the boat. Seabed terrain and potential hazards are shown for the first time with unparalleled realism. You see a real time sonar image of what is actually ahead, not a chart rendered into 3D. Twin retractable transducers ensure complete forward coverage whatever the hull form. The screen updates every 1-2 seconds depending on the range setting.

KEY FEATURES
- 200m forward range, 100m depth range
- 200KHz twin retractable transducers
- Beam width 90° vertical, 60° horizontal
- Multiple display viewpoints
- Ethernet style transducer connection (allows data cable of up to 150m)
- 12 or 24v operating voltage
- Full HD capable
- DVI, VGA, S-Video and Component Video outputs

SUPPLIED WITH
Transducer interface box, visual processor box, twin retractable transducers, control unit, two skin fittings

ECHOPILOT PLATINUM VIDEO
BB Colour Forward Looking Sonar

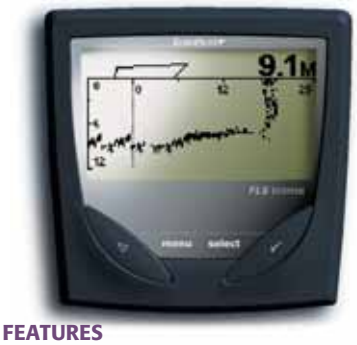
Black box colour forward sonar which links with third party combi displays with a composite or S-Video input. Available as a complete black box solution comprising transducer, skin fitting, cables, electronics and control keypad.

KEY FEATURES
- 200m forward range
- Forward Alarm
- Digital Depth
- Speed Option
- Built in GPS Repeater

EXPERT ADVICE

ECHOPILOT BRONZE
Forward Looking Sonar

If you're stuck for space but still want to fit an FLS, the Echopilot Bronze is ideal, contained in a standard 110x110mm instrument-sized case with the latest transflective LCD technology.



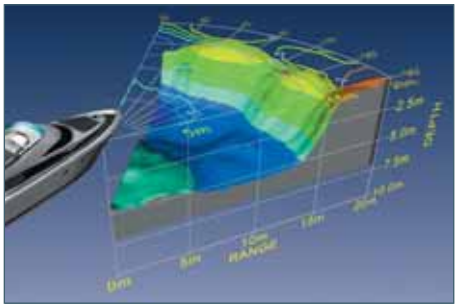
KEY FEATURES
- Simple two key operation
- Forward range 100m, depth range 50m
- Forward alarm
- Optional professional transducer for long keel boats over 35ft

SUPPLIED WITH
200kHz standard or professional transducer with 12m cable

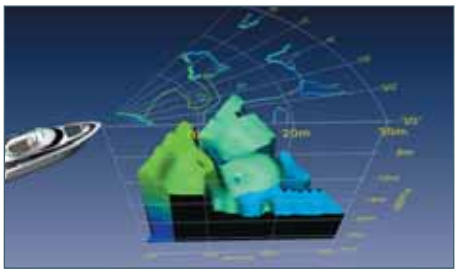
Find out more...

Real Time Forward Looking Technology Explained

Real Time means that the FLS doesn't gradually build up a picture, instead it scans the whole forward view and updates the screen several times a second. An obstruction ahead of the boat will be shown immediately.



The FLS displays a profile of the seabed below and 3-5 times that depth ahead of the vessel on a flat muddy bottom. This increases to 8 or 9 times if the seabed shoals upward and more than this for a large target. Rocky bottoms give especially strong reflections and hard vertical surfaces like quay walls or reefs will often be seen at 150m or more.



In the vertical plane the FLS scans through 90° from straight ahead to straight down. The FLS is not designed to be a fishfinder, it is a collision avoidance device. In reality it does pick up larger fish and sometimes shoals of smaller fish.

BUNDLE MEGADEAL!
Echopilot Bronze S/D/W Bundle

We're offering you a great value for money instrument bundle pack giving you speed, depth and wind data on two multifunction instrument displays!

PACKAGE CONTENTS
- 2 x Bronze Trio Multifunction instruments
- Speed Transducer
- Depth Transducer
- NMEA Wind Transducer

EVERYTHING YOU NEED TO GET STARTED

VISIT OUR WEBSITE FOR THE LATEST PRICES!

AIS & Instruments

ECHOPILOT EASYRESCUE

AIS SART

easyRESCUE is a personal AIS transmitting beacon with inbuilt GPS. When triggered, it transmits an emergency AIS-SART sentence which triggers an alarm on all AIS enabled vessels within range, along with your current position which will be displayed as a marker on AIS-equipped chartplotters. The GPS is a new generation fast acquiring type and the VHF AIS transmitter repeats the message and position several times per minute.

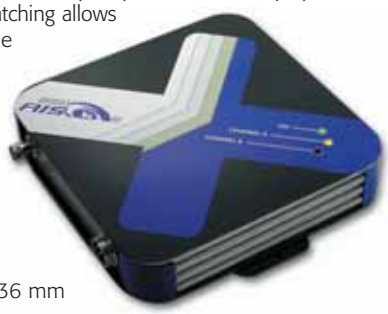
KEY FEATURES

- AIS Class B SAR transmitter
- Very compact size
- 2W transmission power
- Inbuilt, fastest at the market GPS receiver
- Waterproof to IP68 standard
- Simple self test for function check
- Personalised "emergency telegram" (Ship's MMSI may also be transmitted)
- Transmission range up to 3nm (dependent on wave and antenna height)
- Battery lifespan 4 years (if not used except for self tests)
- Service interval - after use or after 4 years, whichever comes first
- BSH approved

ECHOPILOT AIS & AIS-IS

Black Box Dual Frequency AIS Receiver

The Echopilot AIS is a dual frequency AIS receiver that receives both Class A and Class B AIS signals. It makes integrating AIS with your plotter, combi display, PC or laptop simple. Improved drivers and matching allows cable lengths of up to 15m between the Echopilot AIS and chartplotter/ PC without data loss. The Echopilot AIS-IS model features an integral antenna splitter, further simplifying installation.



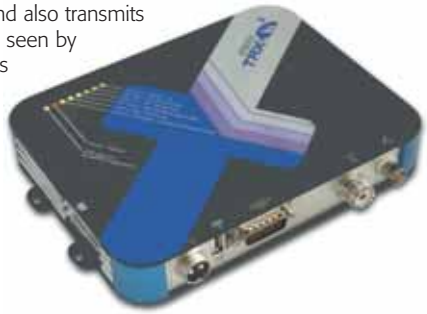
KEY FEATURES

- Very low power consumption
- NMEA compatible
- GPS data in and out
- Robust metal case, only 140 x 140 x 36 mm

ECHOPILOT TRX-2

Black Box Dual Frequency AIS Transceiver

The Echopilot TRX is a 2nd generation dual frequency AIS transceiver with inbuilt GPS receiver (GPS antenna not included). It receives Class A and B AIS data from other vessels and also transmits your boat's own data, so you can be seen by other AIS equipped vessels. Features a USB port for PC integration and an SD card recorder.



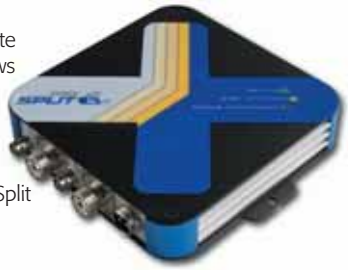
KEY FEATURES

- CPA (Closest Point of Approach)
- Alarm
- SD card recorder
- Silent mode capable
- Fully approved

ECHOPILOT EASY SPLIT & EASY SPLIT OCB

VHF Antenna Splitter

The Easy Split removes the need for a separate VHF antenna for an AIS transponder and allows a single antenna to be shared with a VHF radio. The Easy Split OCB is for Class B AIS installations where the signal is transmitted at 2W, meaning the other equipment must be disconnected very quickly - with the Easy Split OCB, this happens in less than 1millisecond!



KEY FEATURES

- Simplifies installation - no need for two VHF antennas
- VHF antenna input, VHF radio output, AIS output, FM radio output
- Easy Split OCB for Class B AIS installations

ECHOPILOT BRONZE+ SERIES

Instrument Display System

Versatility is the principle of the Bronze Instrument series. Stand alone instruments, they are also fully NMEA compatible and interfaceable. They bring all the features of far more expensive instruments into one neat package and a number of completely unique new ideas too.

All displays are fully functional GPS repeaters, displaying position, BTW, DTW, COG and SOG. The innovative steering screen displays course to waypoint on a simulated compass card and has an off course arrow showing course over ground. Input can be accepted from any other NMEA compatible depth or log, including Echopilot FLS units. NMEA speed, log, depth and GPS information is also output.

The Bronze range uses a transflective, backlit, high definition LCD matrix for maximum visibility in all conditions. The matrix enables the instruments to be menu driven - this way the instruments can be operated simply using just two buttons. The flush mount case is waterproof and matches the Bronze FLS.

ECHOPILOT BRONZE+ TRIO

Combination Log & Depth Instrument Display

Versatile instrument with simple, intuitive menu driven operation with transflective backlit, high definition dot matrix LCD for maximum visibility. The Trio is a combination log and depth unit, but is also a fully functional NMEA repeater and features an innovative steering screen displays course to Waypoint on a simulated compass card and has an off course arrow showing course over ground.

As the Trio will work with a wide range of third party transducers it's ideal as a replacement if you don't want the cost and hassle of lifting your boat out of the water to change the existing transducers

KEY FEATURES

- NMEA repeater
- NMEA input accepted from any other NMEA compatible depth or log units
- Compatible with many old 150kHz or 200kHz depth transducers
- Compatible with many old paddlewheels

ECHOPILOT BRONZE+ DEPTH

Depth Instrument Display

The Bronze Depth+ is unlike all other existing sounders - it is Multi Frequency, which means that you can select the transmit frequency to match the transducer already installed in your boat, making installation simple.

KEY FEATURES

- Multi frequency functionality
- Available with or without transducer
- Graphical depth history
- Deep/shallow alarm
- Keel offset
- Selectable units - feet or metres
- Built in GPS Repeater
- NMEA Compatible
- Repeater Option
- Compatible with many old 150kHz or 200kHz depth transducers

ECHOPILOT BRONZE+ LOG

Speed/Log Instrument Display

The Bronze Log+ can accept input from either a standard Echopilot paddlewheel transducer, or it can repeat NMEA speed and log data from any other source as well as acting as an NMEA GPS repeater.

KEY FEATURES

- Boat speed, log, trip log, speed history
- Sunlight viewable monochrome display
- Calibration Adjustment
- NMEA Compatible
- Repeater Option
- Selectable units - kts, mph, km/h

Turn to the back page for pricing and ordering info NOW!

McMurdo

EPIRBs, PLBs & SARTs

McMURDO SMARTFIND E5

406MHz EPIRB

The Smartfind E5 is an ultra-compact 406MHz EPIRB. Once removed from its Carrysafe mounting bracket, the unit can be activated either manually or automatically by immersion in water. A hydrostatic release casing is also available.

Smartfind EPIRBs are programmed with a unique serial number which must be registered with the national authorities. Where permitted by these authorities, beacons can be re-programmed with the vessel's MMSI or Radio Call Sign.

SEEN IT FOR LESS? WE WON'T BE BEATEN ON PRICE!

KEY FEATURES

- Stylish and compact
- GMDSS compliant
- 121.5MHz homing transmitter
- Non hazardous battery for safe and easy transportation
- High brightness LED flashing locator lights
- Comprehensive diagnostic and self-test facilities
- 6 year battery life

McMURDO SMARTFIND G5

406MHz GPS EPIRB

Ultra-compact 406MHz EPIRB with a high performance multi-channel integral GPS. Supplied with a Carrysafe mounting bracket, the G5 can be activated manually or automatically by immersion in water. A hydrostatic release casing is also available.

Smartfind EPIRBs are programmed with a unique serial number which must be registered with the national authorities. Where permitted by these authorities, beacons can be re-programmed with the vessel's MMSI or Radio Call Sign.

EDITOR'S CHOICE

KEY FEATURES

- State of the art multi-channel GPS
- GMDSS compliant
- 121.5MHz homing transmitter
- Non hazardous battery for safe and easy transportation
- High brightness LED flashing locator lights
- Comprehensive diagnostic and self-test facilities
- 6 year battery life

McMURDO FAST FIND 210

406MHz GPS PLB

Extremely compact and powerful PLB with a built in 50 channel GPS for additional pinpoint accuracy, further speeding up time of location. Once activated, Fast Find will continue to transmit for at least 24 hrs at a powerful 5W output, the 406 MHz transmission ensures that a call for help gets through whatever the conditions. Fast Find also includes a unique SOS LED flash light facility which is manually activated to further assist in speeding up recovery during night time rescues.

KEY FEATURES

- Extremely compact and lightweight
- 406 MHz international messaging and 121.5 MHz homing signal
- 50 channel integral GPS
- 5 year replaceable battery
- SOS Morse LED flash light
- Simple three-stage activation
- Minimum 24hrs continuous operation

McMURDO FASTFIND MAX G

406MHz GPS PLB

Handheld PLB with integral GPS featuring the same advanced technology found in the award winning Precision EPIRB. Designed using miniature components to fit into an erogonomically styled compact casing, it employs a simple 3 stage manual operation and features user replaceable battery packs. It is ideal for alerting the rescue services of an emergency during maritime, light aircraft and outdoor activities (where licensing allows).

KEY FEATURES

- Compact and lightweight
- 406MHz transmitter, 121.5MHz homing frequency
- Integral GPS receiver
- Battery life 5 years, transmission life 48 hrs

McMURDO FAST FIND 200

406MHz PLB

All the features of the Fast Find 210, but without the internal GPS. Alert signal to rescue services within 90 mins, typical positional accuracy to within 3nm.

WE CAN PROGRAM INTERNATIONAL VERSIONS OF ALL THESE EPIRBS - VISIT OUR WEBSITE, PART NO. ZMCMPROG

McMURDO S4 RESCUE

SART

A 9GHz X-Band Radar transceiver for assisting air/sea ship or survival craft rescue operations in accordance with IMO GMDSS requirements.

KEY FEATURES

- Ship or survival craft use
- 96hr operation (standby mode)
- 5 year long life replaceable battery pack
- Audio/visual alarm
- Inbuilt test facility
- Internal/external mounting options

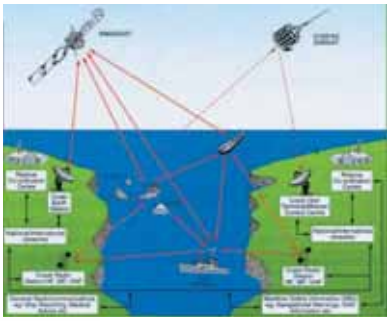
SUPPLIED WITH

Mounting bracket, lithium battery

Find out more...

What is an EPIRB?

An Emergency Position Indicating Radio Beacon (EPIRB) is used to alert the Search And Rescue services in the event of an emergency. It transmits a coded message on the 406MHz distress frequency, which is detected by the COSPAS-SARSAT satellites. Emergency alerts are relayed to the closest Local User Terminal, which then forwards the information to the Mission Control Centre where the message is decoded. The distress details and vessel details (taken from the registration details) are then passed to the appropriate Rescue Coordination Centre who co-ordinate the relevant Search And Rescue authorities.



What's the difference between an EPIRB and a PLB?

Once the Search And Rescue service are in the area, they need to pinpoint your position directly. McMurdo's Smartfind E5 and G5 EPIRBs contain a 121.5MHz location transmitter for this purpose.

That's fine if you're with the EPIRB, but if you're in the water or have become separated from the vessel, you'll still want the rescue services to find you quickly and easily. A Personal Locator Beacon (PLB) transmits on the same 121.5MHz frequency, but is designed to be carried on your person - many quality foul weather jackets have a pocket on the sleeve for this purpose.

And what's a SART?

Generally deployed in the liferaft on a long pole, a Search And Rescue Transponder (SART) performs a similar function to a PLB, the difference being that a SART sends out a 9GHz signal which is detected by a ship's radar, appearing as a dotted line pointing to your position.

McMurdo/Echomax

AIS SARTs, Radar Target Enhancer

McMURDO SMARTFIND S5

AIS SART

A manual deployment survivor location device for use on life rafts or survival craft, it meets IMO SOLAS requirements and is an alternative to a Radar SART. Compact, easy to operate and deploy, the Smartfind S5 is supplied in a quick release carry off bag for quick evacuation. When activated it triggers an alarm on all AIS enabled vessels within range, transmitting your vessel's MMSI number along with your current position, which will be displayed as a marker on AIS-integrated chartplotters. Once activated the Smartfind S5 AIS SART transmits continually for a minimum of 96hrs. An inbuilt GPS provides high speed position information to assist in the quick recovery of survivors.

The highly visible, buoyant carry case can be wall mounted the bridge or packed inside a survival craft.

HOT PRODUCT

KEY FEATURES

- Ship or Survival craft options
- Buoyant/floats, waterproof to 10m
- Rugged, compact and lightweight
- Non-hazardous battery for safe, easy transportation
- 6 year battery life
- Visual indication of operation
- Built-in test facility
- Integral lanyard
- Internal/external mounting options

McMURDO SMARTFIND S10

Personal AIS Beacon

The Smartfind S10 AIS Beacon is an innovative manually activated personal safety device which incorporates both AIS (Automatic Identification System) and GPS technology.

Smartfind S10 is waterproof, buoyant and compact, intended for carriage by divers, crew and anyone who works or carries out leisure activities on the water.

When activated the Smartfind S10 transmits a unique alert signal to the vessel the individual has come from and to all AIS enabled equipment within a typical 4 mile range, signalling that help is required in a man overboard or lost diver situation.

NEW FOR 2012

KEY FEATURES

- Manually activated personal safety device to aid recovery of persons in difficulty
- Transmits GPS target tracking information over AIS
- Unique serialised ID
- Small and light for unobtrusive carriage
- Waterproof, buoyant and fully submersible to 60m
- Flashing LED light
- Minimum 24 hour continuous operation
- 5 year battery storage life

KANNAD SAFELINK R10

Survivor Recovery System

The SafeLink R10 SRS (Survivor Recovery System), is a personal AIS device designed to be fitted to a lifejacket and assist in Man Overboard recovery. It enables those on board any vessel with an AIS chart plotter to quickly and efficiently locate and retrieve a missing crew member. It also features a flashing LED indicator light to aid detection.

Carrying a SafeLink R10 is a must for every safety conscious sailor. Using this simple to operate, yet state of the art device gives the best chance of retrieval in a man overboard situation.

NEW FOR 2012

HOT PRODUCT

KEY FEATURES

- Lifejacket mounted personal AIS beacon
- Transmits GPS target tracking information over AIS
- Unique serialised ID
- Compact and lightweight
- Webbing clip or oral inflation tube mounting
- Provides exact location, range and bearing to locate person(s) in need of assistance
- Minimum 24 hour continuous operation
- 7 year battery storage life

ECHOMAX ACTIVE-X

X Band Radar Target Enhancer

Active Radar Target Enhancer which dramatically improves your safety at sea by increasing the chances of being seen by on radar by commercial shipping. The unit receives a signal from a transmitting radar, amplifies it and returns a stronger signal.

The operating range is typically up to 30nm, this will vary depending on the height that it is installed, the heel angle of the boat and also the position and power of the scanning vessel's radar system, but independent performance tests by QinetiQ showed a dramatic increase in the visible radar signal when using the Active-X system, and a test by Practical Boat Owner magazine showed that it significantly outperformed competitive Active RTE systems.

HOT PRODUCT

KEY FEATURES

- Reception frequency: X band 9.3 - 9.5GHz
- Exceeds ISO 8729-2 performance requirements
- Standby current consumption less than 15mA
- Size of boosted radar signal generated -
  0° heel: 111.36m²
  10° heel: 78.96m²
  20° heel: 20.80m²
- Only weighs 327g (excluding cable)
- External alarm relay

SUPPLIED WITH

Control box, 24m cable (base shown not included)

ECHOMAX ACTIVE-XS

Dual Band Radar Target Enhancer

State of the art Radar Target Enhancer which works on both X and S band radar systems, greatly increasing your chances of being seen by large vessel radar systems. The quadruple alarm indicates whether you are painted by S or X Band radar signal.

KEY FEATURES

- Reception frequency:
  X band 9.3 - 9.5GHz
  S band 2.9 - 3.1 GHz
- Exceeds ISO 8729-2 requirements
- Standby current consumption less than 23mA
- Weight 573g (excluding cable)
- External alarm relay

SUPPLIED WITH

Control box, 24m cable

ECHOMAX ACCESSORIES

Mounting Hardware

A range of stainless steel fittings are available:

- Base fitting for cabin roofs etc
- 150mm extension pole
- 300mm extension pole
- Mast bracket

Tech info

Why Fit an Active Radar Target Enhancer?

One of the biggest dangers facing small boats is the risk of being run down by larger commerical vessels, particularly in busy shipping lanes. These large vessels generally rely on radar to inform them of any potential collision hazards, particularly at night or in bad weather where visibility is poor.

Most small boats are built from GRP, composite materials or wood which are poor radar signal reflectors. This, coupled with the fact that most small boats sit relatively close to the water means that it is very difficult for them to be picked up on a ships radar. Even a yacht at full sail doesn't necessarily present a strong radar target, especially when it is heeled over, which reduces the visible cross-section.

A common solution is the use of passive radar reflectors which are designed to reflect the incoming radar signals more efficiently through the use of angular metallic plates, but these only have limited effectiveness, especially if the incoming radar pulse is weak to begin with.

Active Radar Target Enhancers improve on this by electronically amplifying and re-transmitting the incoming radar pulses, so your small sailing yacht will look like a much larger vessel to any ship within radar scanning range. In independent tests, the radar echo returned by an unheeled boat fitted with the Echomax Active-X RTE was in excess of 110 sq m, certainly big enough for the skipper of any tanker to sit up and take notice!

Turn to the back page for pricing and ordering info NOW!

Ocean Signal
Safety Equipment

INTRODUCING OCEAN SIGNAL®

Communication and Safety Products

Ocean Signal, the new name in communication and safety at sea, has brought together one of the most highly experienced electronic engineering teams in the marine communications industry who have a vision to provide the very best communication and safety products for today's mariners.

All Ocean Signal products are designed to meet or exceed the technical requirements of the International Maritime Organisation (SOLAS), International Electrotechnical Commission standards, European Directives and Decisions, United States Coastguard standards as well as many other applicable national and international rules.

Offering exceptional value, the Ocean Signal range of products gives commercial, fishing and recreational users the confidence that their equipment will work to, and beyond, their expectations when it is needed most. Ocean Signal customers are their highest priority. Using the latest technologies available and paying meticulous attention to detail throughout the manufacturing process, Ocean Signal believes its products to be the best in class and to provide the highest standards of communication and safety at sea.

OCEAN SIGNAL SAFESEA V100

GMDSS Handheld VHF Radio

Ultra-rugged and easy to use handheld VHF radio that meets all IMO requirements for carriage on SOLAS ships. The novel battery protection tab means the primary battery can be permanently attached to the radio without fear of losing its charge. In an emergency simply break off the red protective tab and the radio will be immediately ready to turn on. An optional rechargeable lithium polymer battery is available for everyday use. The quick release rapid charger provides the ideal solution for keeping the batteries fully charged.

Battery protection tab

Optional accessory socket

KEY FEATURES

- High efficiency transmitter for maximum battery life
- Lithium primary battery for emergency use
- Novel battery protection tab protects from inadvertent use
- Battery classified as non-hazardous for shipment
- Battery provides in excess of 16hrs typical operation, even at -20°C. (10% Tx, 10% Rx, 80% Squelched)
- Lithium Polymer rechargeable battery option available with rapid charger, for everyday normal use
- High contrast, backlit LCD and keypad
- Rugged accessory socket option - waterproof to IP68 for use with headsets, helmets, fist mikes, etc.

OCEAN SIGNAL SAFESEA S100

SART

Dedicated radar transponder which complies with IMO SOLAS regulations. When switched on, the SART remains in a standby mode until automatically activated by an X-Band Radar sweep from any vessel in the vicinity. The SafeSea S100 transmits a series of pulses which are displayed on the ships Radar as a line of dots, providing a bearing to the survival craft. Simple, intuitive operating controls under snap-off cover prevent accidental activation.

Intuitive controls

KEY FEATURES

- Superior battery life, even at -20°C
- User replaceable, non hazardous battery
- Five year replacement interval
- Compact size for easy liferaft packing
- Supplied with telescopic pole and storage bracket
- 1 SART required per IMO SOLAS vessel (300 tonnes and above on international voyages)
- 1 SART for every 4 liferafts on RO-RO passenger vessels
- Nationally mandated vessels, including fishing vessels, passenger craft, commercial workboats, etc
- Most Super and Megayachts are required to carry a SART, especially if covered by the MCA code of practice, which is recognised by many countries.
- Voluntary fit vessels will also benefit by carrying a SART

OCEAN SIGNAL SAFESEA E100/E100G

406MHz/121.5MHz EPIRB & GPS EPIRB

SafeSea EPIRBs operate in the 406MHz satellite band monitored by Cospas-Sarsat, the international satellite operator, ensuring a signal can be located wherever it is activated around the globe. SafeSea EPIRBs are also fitted with a 121.5MHz homing beacon and a high brightness LED strobe light for fast on-scene location.

The SafeSea E100G includes a dedicated inbuilt 50 channel GPS providing fast and accurate signal acquisition (typically within 30 seconds).

At over 96hrs, battery operating life is the highest in the industry, so an Ocean Signal EPIRB keeps rescue services updated with your location for longer.

High brightness LED strobe light

User replaceable, non hazardous battery

KEY FEATURES

- Choice of GPS and non-GPS models
- E100G incorporates a state of the art 50 channel GPS receiver for fast and accurate position acquisition
- Manual bracket, manual release housing and float free housing options
- Typically 96 hours operation
- User replaceable batteries with five year replacement interval
- Non hazardous battery
- Intuitive operating controls protected from accidental activation
- Meets or exceeds all International standards
- Class 2 (-20°C - +55°C) for general use

Tech info

SafeSea EPIRB Mounting Options

Two optional housings for the SafeSea EPIRB are available. Both are manufactured in a durable and highly UV stable plastic and provide excellent protection of the unit until it is required.

- **MRH100** manual release housing
- **ARH100** automatic release housing, containing a hydrostatic release that automatically deploys the EPIRB if the vessel is sinking. IMO regulations require an automatic release housing to be provided for mandatory fitted EPIRB's.

The EPIRB is easily removed from either housing.

We accept most major credit and debit cards

Navionics

Electronic Cartography

NAVIONICS

Electronic Cartography

Navionics offers two main chart types, the popular Gold and the multi-award winning Platinum+. Both are based on Navionics' exclusive vectorised fully seamless technology, providing clearly legible charts without clutter, holes or gaps. Visit www.navionics.com to access the list of compatible plotters.

NEW FOR 2012 - THE FRESHEST DATA AVAILABLE EVERY WEEK!

NEW FOR 2012

Why update your charts? Water levels fluctuate, buoys change, and new data is constantly being added to Navionics' database - they make over 10,000 changes every week! Freshest Data gives you access to Navionics' most current database which includes the latest Notices to Mariners, tidal data, port plans, POIs, improved bathymetric coverage, new data sets, updated coastlines, windfarm development, marina changes and updated wreck info. New 2012 Navionics products are eligible for unlimited FREE updates* to the nautical chart for one year. Freshest Data updates are available online for Gold and Platinum+ marine charts. ** Does not include Denmark (where government regulations do not support this offer).*

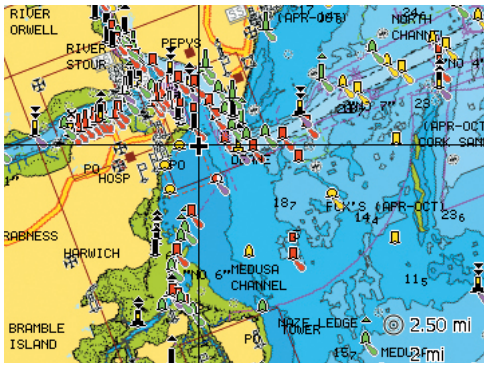
NEW FOR 2012 - USER GENERATED CONTENT

Join the UGC revolution and contribute to building the best localised data available. With a few simple steps, you can edit your charts to indicate local data like Rocks, Wrecks, Obstructions, Buoys, Beacons & Signs, Lights, Shops & Repairs, Ports & Marinas and Anchorages, Moorings and more. In sharing your UGC, a community of users will benefit and it is visible almost instantly!

NAVIONICS GOLD

Electronic Cartography

Gold charts bring electronic cartography a step closer to the official paper charts. Bathymetries are easily distinguishable thanks to the different colour shadings with selectable contour colours, light sectors of lighthouses and real forms and colours of buoys.



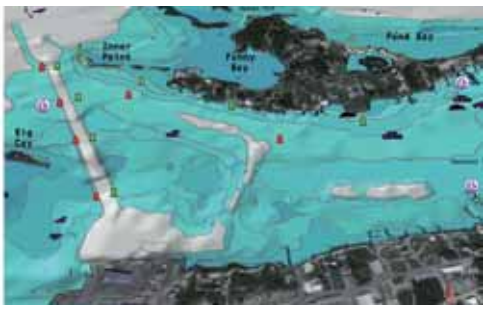
KEY FEATURES

- Spot soundings and contours
- Best range 1/32nd mile
- Detailed port plans and port services guide
- Animated tide height, current speed/direction data
- Available in Small or XL9 sized areas of coverage
- Compatible with PC Planning kits

NAVIONICS PLATINUM+

Electronic Cartography

From detailed 2D base charts to top-down satellite photo overlays and 3D view, Platinum+ allows you to navigate in multiple dimensions for the ultimate in situational awareness. TurboView™ Technology offers powerful multi-dimensional charting - the embedded Navionics TurboView Charting Engine dramatically increases the functionality and display capabilities of compatible GeoNav, Simrad, Lowrance, B&G and Raymarine plotters to provide boaters with the ultimate charting experience.



KEY FEATURES

- Award-winning Multi-Dimensional charts
- Sold in two sizes, XL and XL3
- Shaded depth contours for enhanced definition
- Panoramic Port Photographs
- Detailed Pilot Books
- Detailed top-down aerial photographs that overlay over the chart at variable transparency
- Enhanced Points of Interest data
- Seamless, fluid pan and zoom, rotation and pitch functionality, much like a flight simulator!
- Seamless transition between 2D and 3D views
- Real-time overlay of navigation data on 3D profiles
- Depth and elevation shadowing
- High-speed flythrough, detailed aerial photo overlay

Find out more...

Why upgrade embedded charts?

The Raymarine C & E series, Simrad NSE & NSO and the B&G Zeus chartplotters are all supplied with embedded Navionics Silver cartography, so why would you need to think about upgrading these to Gold or Platinum+?

Navionics Silver

This is a very simple embedded chart of a large cruising area (eg Europe). The advantages are that you get huge coverage, you can use your chartplotter "straight out the box" and it's great for route planning as it enables you to plan trips outside your regular cruising area.

However, there are limitations - the detail is only down to 0.5nm, there is no depth information beyond 10m (spot sounding, contours, etc.), no tidal heights, no current speed and direction, no port plans or Points Of Interest, it's not Navionics freshest data and most importantly, it's not updateable because it is preloaded into the chartplotters at the factory.

Portland Bill & The Shambles - Navionics Silver

Portland Bill & The Shambles - Navionics Gold

Portland Bill & The Shambles - Navionics Platinum+

The above examples clearly show the difference in the level of detail and presentation of the same area between Silver, Gold and Platinum+. Only Platinum+ is compatible with TurboView, Navionics' exclusive software engine which enables you to switch seamlessly between 2D and 3D views.

The latest Raymarine, Simrad and B&G plotters are designed to take full advantage of all the features of Navionics Gold and Platinum+ cartography, In our view it would be a waste to invest in this level of technology and to not use it to the full.

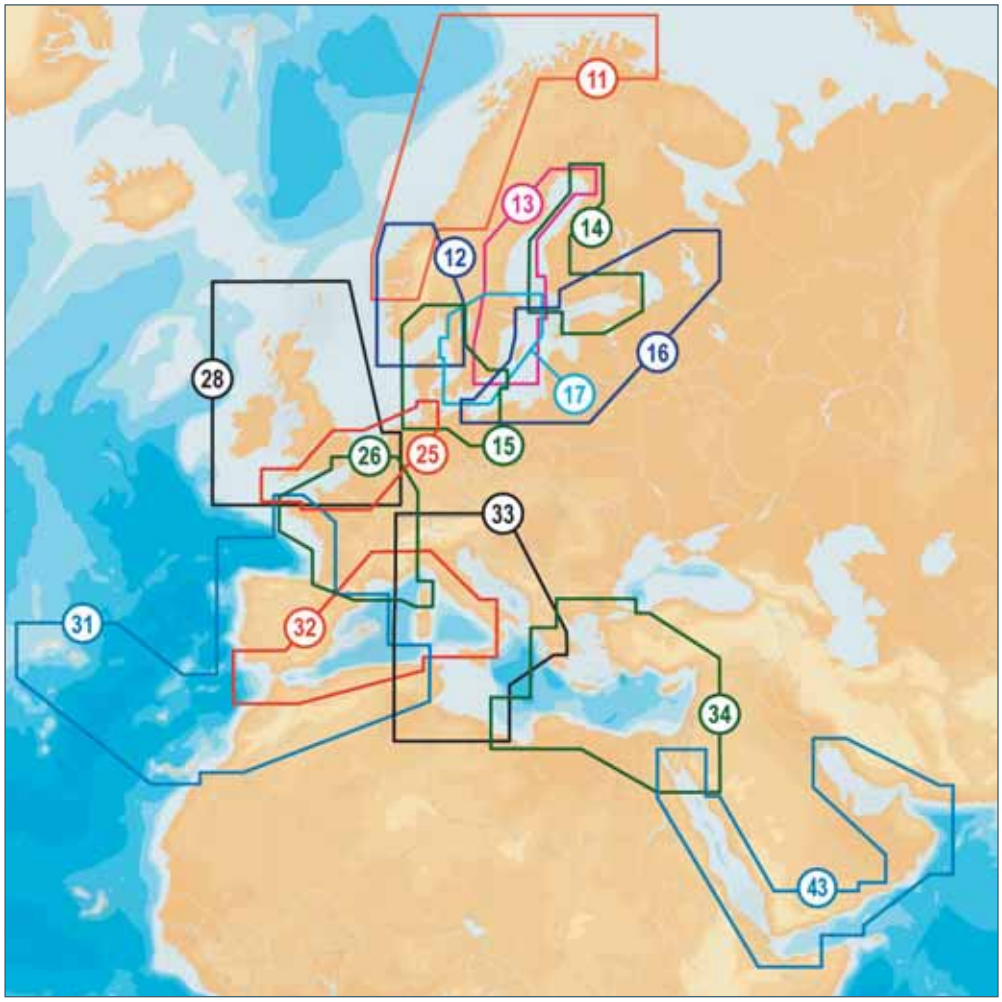
Call us now for unbiased advice and to find out more about the chart coverage of your area.

Turn to the back page for pricing and ordering info NOW!

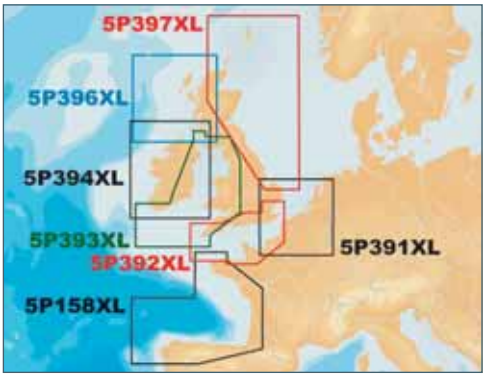
Navionics
Electronic Cartography

NAVIONICS PLATINUM+

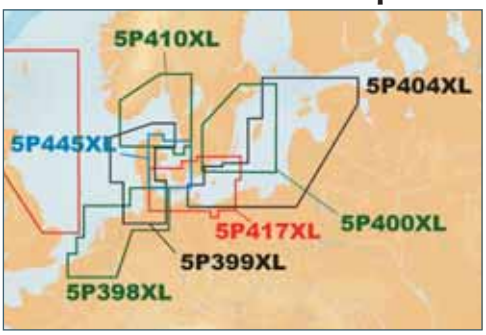
Platinum+ XL3 - Western Europe



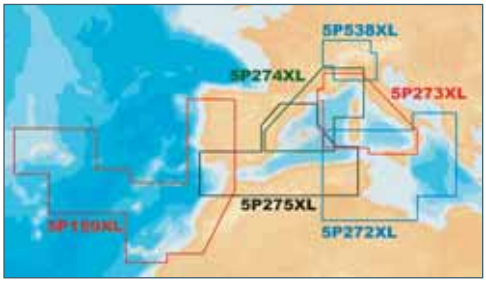
Platinum+ XL - UK



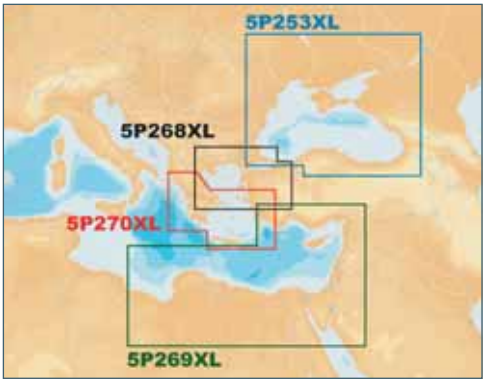
Platinum+ XL - Northern Europe



Platinum+ XL - West Mediterranean



Platinum+ XL - East Mediterranean



Platinum+ XL - Oceania

FDI NAVIGATIONPLANNER

PC-Based Chart Viewing System

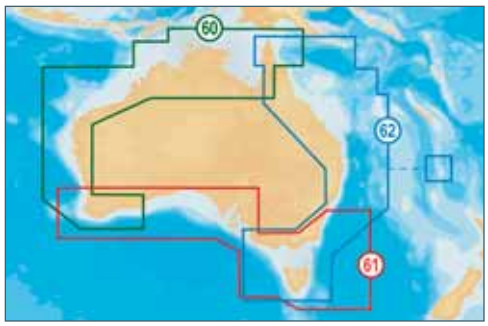
Designed specifically for Navionics charts, this allows you to plan using your PC at home, on board or in the office and save directly to a compatible cartridge for your chart plotter. Backup all your navigation way-points and routes on your PC, import data from other sources and transfer them to your plotter.

KEY FEATURES

- View the chart on your PC
- Load, create and edit routes and save to chart card
- Keep your own waypoint library, import waypoints from CSV files and other sources
- Transfer data directly from the card to the plotter
- Use the same chart symbols on your plotter and PC
- Create a route with just a few mouse clicks
- International or US colours and symbols
- View and print full details of routes and waypoints
- Locate ports with the Go-to-port function
- Measure distances, bearing, fuel use and more
- Access tide & current, sun & moonrise data - show tidal flow direction and velocity on chart. (Subject to chart data availability)

Platinum+ XL3 - Americas

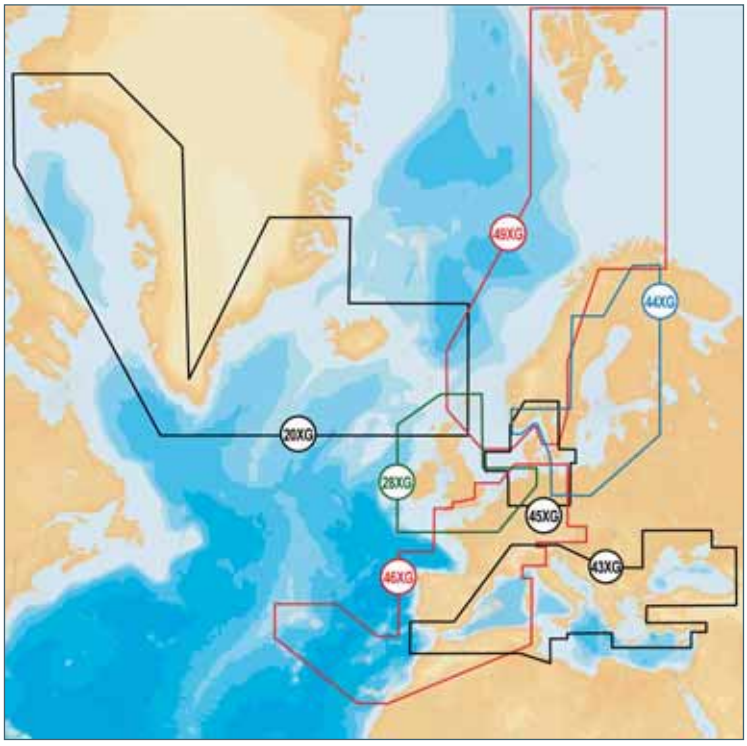
Platinum+ XL3 - Oceania



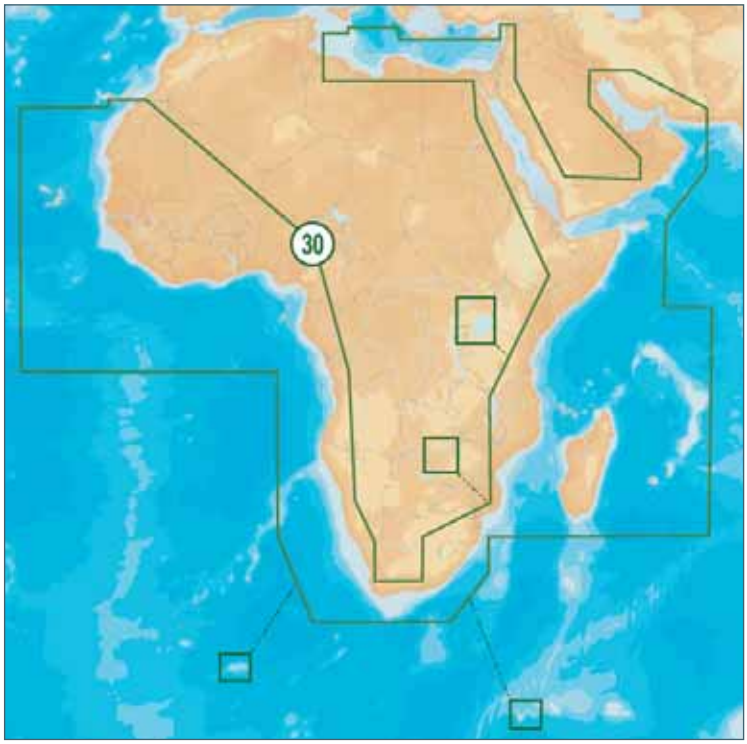
Electronic Cartography

NAVIONICS GOLD

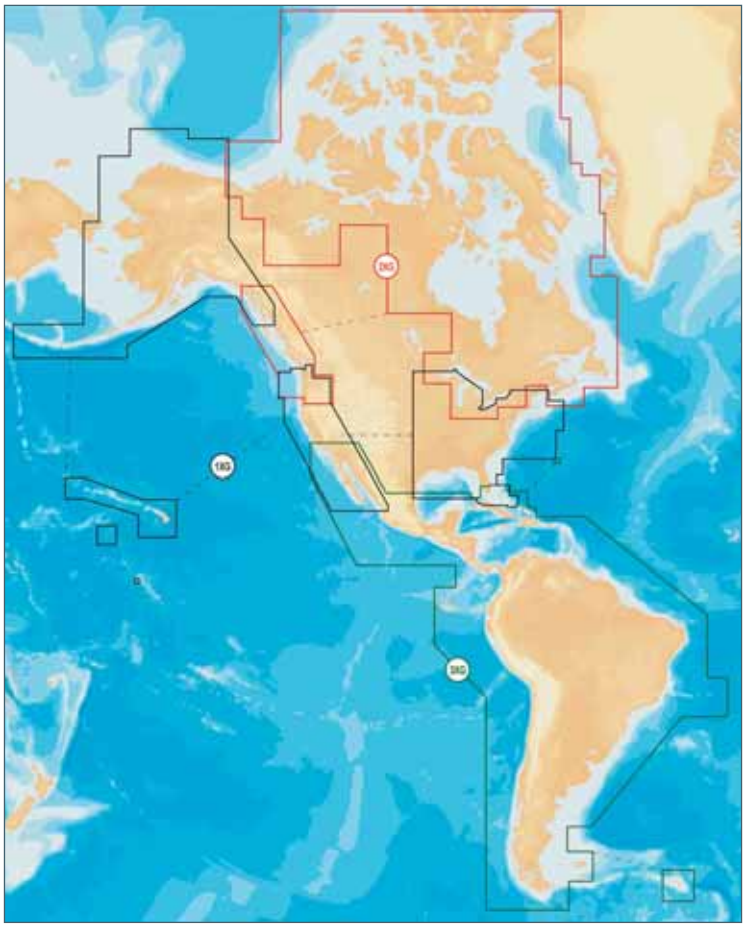
Gold XL9 - Western Europe



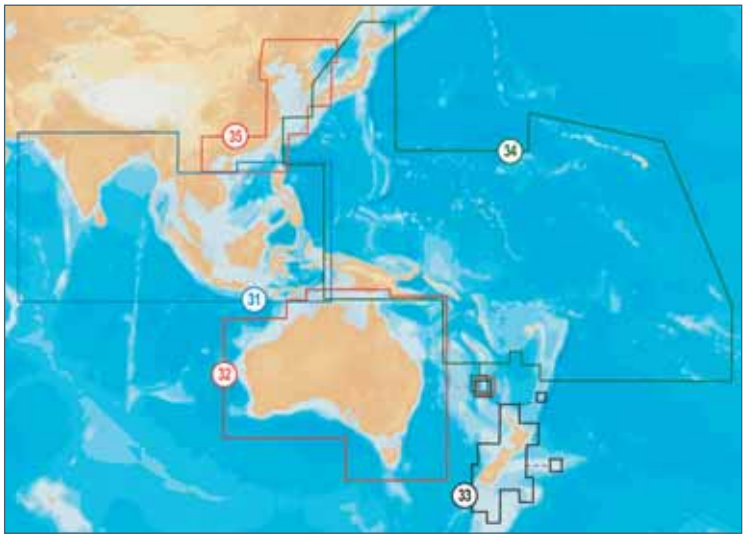
Gold XL9 - Africa



Gold XL9 - Americas



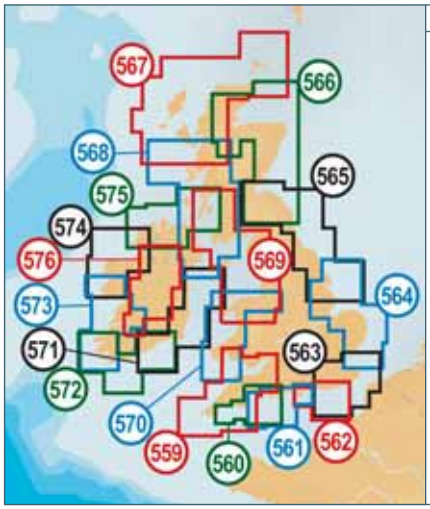
Gold XL9 - Asia & Oceania



Please note that the coverage maps shown on these pages are just a small selection of Navionics' entire worldwide chart catalogue

Contact us for further information if the area you're looking for is not shown here, or visit our website.

Gold Small - UK



Code	Area
557	JERSEY - LE TREPORT
558	ST-VALERY - ZEEBRUGGE
559	TENBY - EXMOUTH
560	FALMOUTH - WAYMOUTH
561	START PT - CHICHESTER
562	KEYHAVEN - RYE HBR.
563	LITTLEHAMPTON - WALTON
564	BURNHAM - SCARBOROUGH
565	GRIMSBY - ANSTRUTHER
566	SCOTLAND EAST
567	SCOTLAND NORTH WEST
568	SCOTLAND WEST
569	ISLE OF JURA - BARMOUTH
570	LIVERPOOL - GOWER
571	IRELAND EAST
572	IRELAND SOUTH
573	IRELAND WEST
574	IRELAND NORTH WEST
575	IRELAND NORTH
576	SHANNON - ERNE

Turn to the back page for pricing and ordering info NOW!

Jeppesen (C-MAP)
Electronic Cartography

A closer look...

MAX 12

New up-to-date version of Jeppesen charts

When it comes to MAX 12, there's no comparison. Advanced features make cruising, sailing and fishing easier, safer, and more fun. With the most accurate chart detail, versatile features and a wealth of important value-added data, we take your boating enjoyment to the MAX!

Why Update

- Wide coverage areas are now up to 3 times bigger
- Get the most accurate and current information
- Up-to-date charts help contribute to safe navigation
- C-MAP by Jeppesen charts are updated regularly and offer the best in official and reliable charting

For more information on updating your cartridge, visit jeppesen.com/lightmarine.

Check the date of your update on the label of your C-MAP by Jeppesen chart.

PC-Planner

Rewind your adventure... plan your next one

Whatever marine activity you enjoy, PC-Planner makes it easier. Plan next summer's cruise, view your course from the weekend regatta, locate a wreck to dive or fish on and download free weather forecasts.

- Plan
- Archive
- Weather
- View
- Work

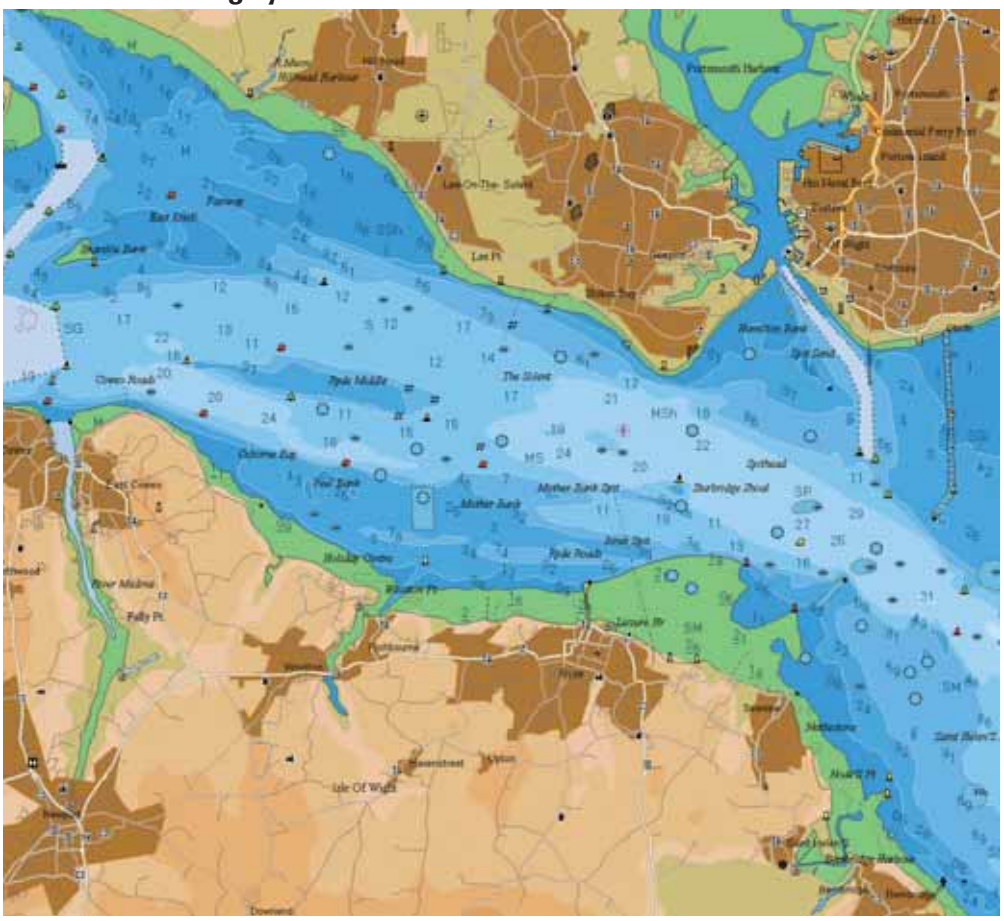
Visit jeppesen.com/lightmarine

C-MAP by Jeppesen charts are available in the following technologies, sizes and media:

NT+ Local, Wide	C-Card	FP-Card	DVD
MAX 12 Local, Wide, MegaWide	C-Card	SD-Card	DVD

C-MAP MAX

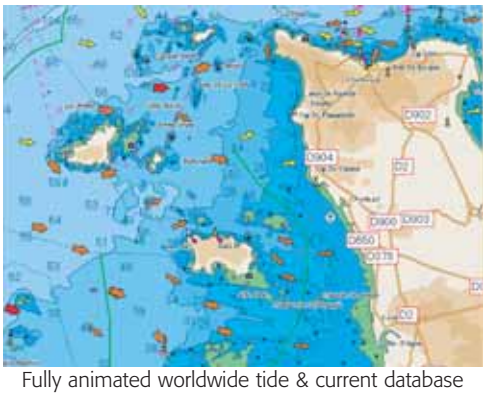
Electronic Charting System



MAX is C-Map's dynamic and interactive chart technology that has revolutionised the way electronic charts look and behave. MAX brings new life to the electronic chart, combining unparalleled levels of chart accuracy and detail, striking presentation and a huge collection of new value added data.

KEY FEATURES

Embedded photos & coastal land mapping



Fully animated worldwide tide & current database

Aerial photography of ports and marinas

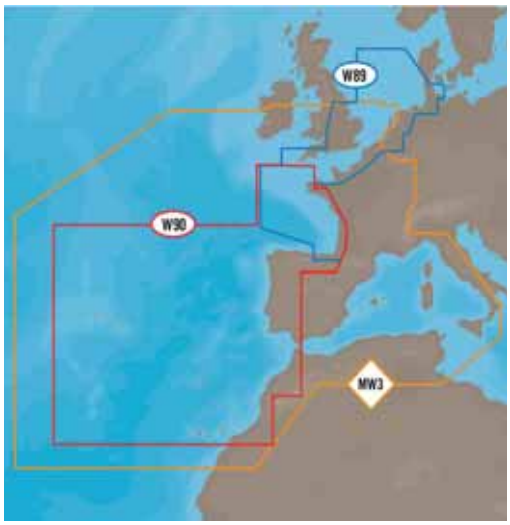
Perspective view - "rolling road" chart display

Jeppesen (C-MAP)

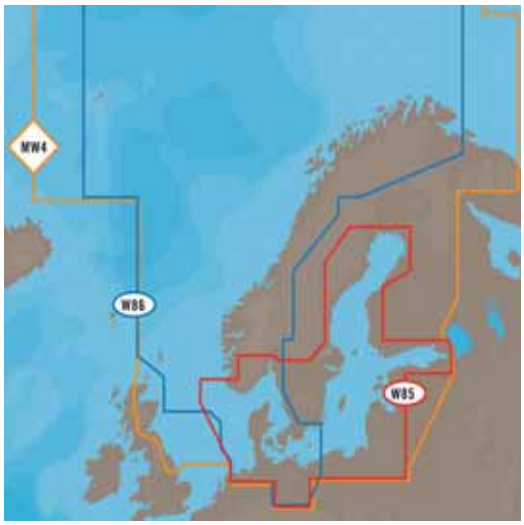
Electronic Cartography

C-MAP MAX WORLDWIDE CHART COVERAGE

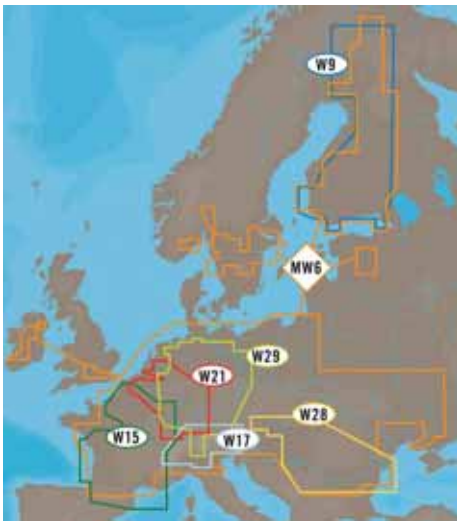
West European Coasts Megawide/Wide



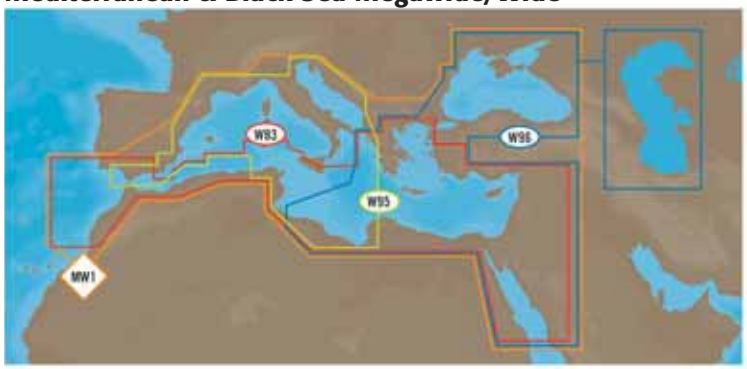
North & Baltic Seas Megawide/Wide



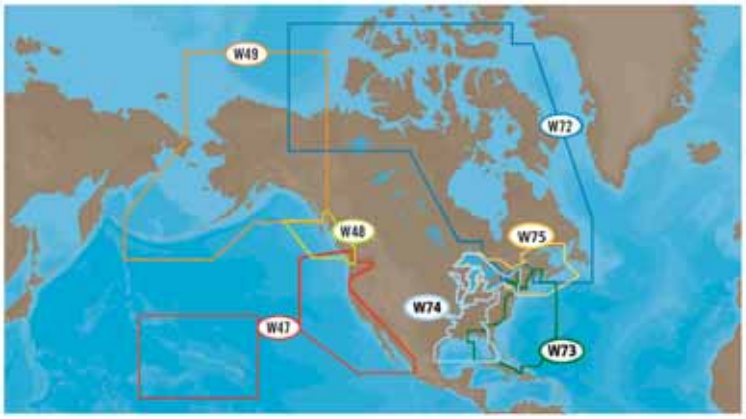
West Europe Fresh Waters Megawide/Wide



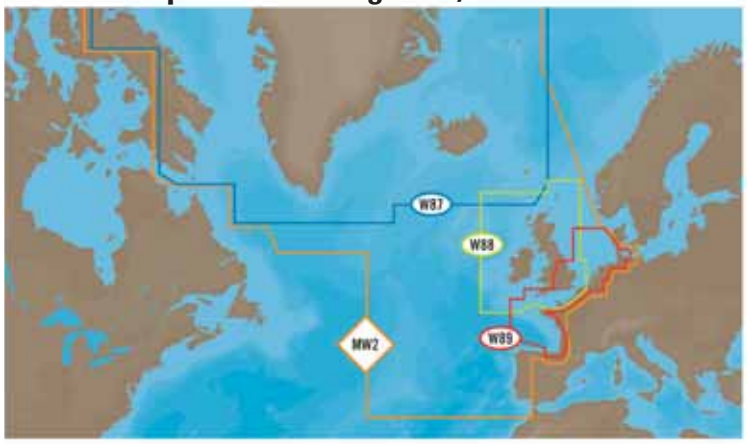
Mediterranean & Black Sea Megawide/Wide



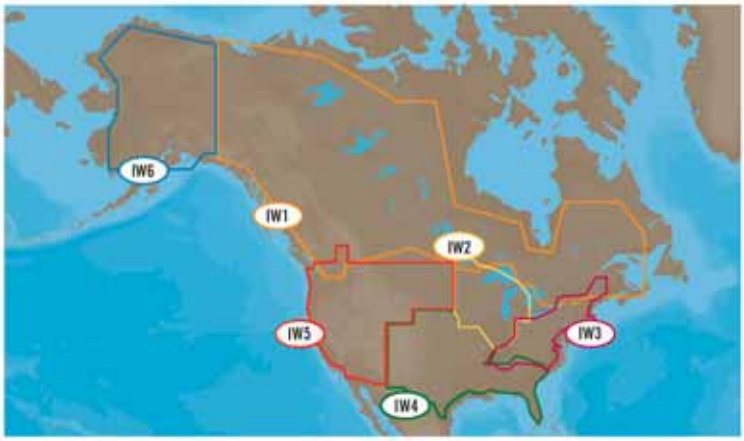
Canada & USA Wide



Atlantic European Coasts Megawide/Wide

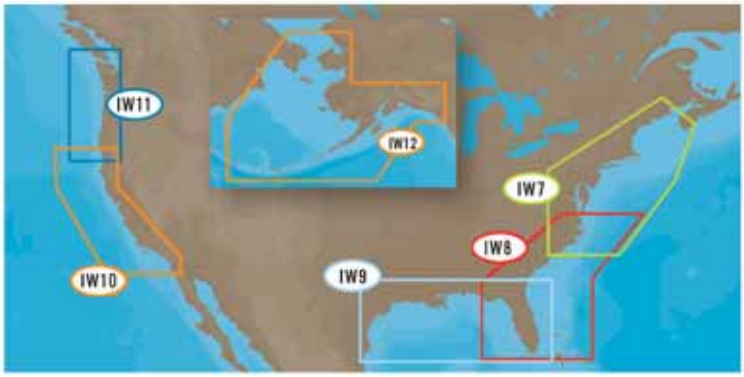


MAX US Lakes Wide



North & Central America Megawide

US Fishing Contour Charts Wide



This is just a small selection of the total C-Map coverage. If you are looking for a region not shown here, please call us for more details or check our website.

Turn to the back page for pricing and ordering info NOW!

DigitalYacht
Marine PC Systems

DIGITALYACHT AQUA STANDARD PC

Compact 12v Marine PC

Aqua PC is designed as a general purpose, great value on board PC. With the latest ultra low power, fanless, Intel Atom N270 processor (2.5W) the complete Aqua PC system typically consumes just 20W but provides all of the performance needed to run navigation software, e-mail, surf the web, etc. All Aqua PCs can be connected directly to the boat's 12v or 24v DC supply with no inverter and all models can be switched on/off either from the front panel switch or from a remote push button switch (not supplied). Can be supplied with optional built-in Hi-Power Wi-Fi adaptor or built-in NMEA 2000 Gateway.

KEY FEATURES

- 12/24v DC, ultra rugged, fanless marine PC
- Compact - measures just 30 x 27 x 7cm!
- Easy mounting and installation
- Fitted with CD/DVD RW
- Supplied with Windows 7 (on UK versions) - Linux version also available
- 2 x NMEA Ports and 3 x USB Ports
- Intel Atom N270 processor for low power consumption and fast computing
- 160GB hard drive fitted in Anti-Vibration mount

DIGITALYACHT AQUAPRO 2 PC

Compact 12v Marine Navigation PC

Designed specifically for high speed, demanding 3D charting and bathymetric applications, AquaPro 2 has been successfully tested on the latest MaxSea TimeZero technology. For exceptional performance it uses the latest AMD Fusion APU technology, with 8GB RAM, 6 USB ports (including 2 x USB3.0), Windows 7 (64 bit) as standard. It can be fitted with an internal 4 port isolated NMEA interface with built in multiplexing functions, allowing complex NMEA systems to be integrated with the PC.

KEY FEATURES

- 64GB solid state hard drive, 8GB RAM
- Latest AMD A6-3500 processor
- Optimised for graphics-intensive navigation software
- 802.11n wireless adaptor for easy networking
- 6 x USB Ports
- 1090P HDMI output, Dolby 7.1 surround sound

DIGITALYACHT AQUAMEDIA 2 PC

Compact 12v Marine MediaCentre PC

Featuring the latest AMD Fusion E-350 dual core processor with Radeon graphics chip, the complete system typically consumes just 35W while giving the performance you need for a full function HD Media Centre PC.

NEW FOR 2012

KEY FEATURES

- 320GB hard drive, 4GB of RAM
- BluRay drive, true HD 1080P movie playback
- Supports 8 channel Dolby 7.1 surround sound
- Digital TV tuner - record, pause and rewind live TV!
- 4 x USB 2.0 and 2 x USB 3.0 ports

DIGITALYACHT AQUANAV PC

Compact 12v Marine Navigation PC

AquaNav is optimised as a powerful marine navigation PC. Standard interfaces include three USB ports and a VGA and DVI port allowing the system to drive up to two compatible LCD monitors. It is supplied ready preconfigured and interfaced so the GPS and AIS work straight out of the box.

KEY FEATURES

- Super fast 64GB solid state hard drive, 2GB of RAM
- Two NMEA ports
- Inbuilt dual channel AIS receiver
- Dedicated GPS Antenna
- CD/DVD RW drive

ALL AQUA PCs SUPPLIED WITH

0.75m power/IO cable, bulkhead and desktop mounting brackets, SmarterTrack Lite software, driver CD. Aqua Nav PC also includes a navigation IO cable and GPS smart antenna

DIGITALYACHT T112

12in Marine Touchscreen Monitor

A compact 12v DC high resolution 1024x768 LCD touch screen with VGA, DVI and composite video input. Supplied with flush mount kit and software. Touch screen operation requires a USB connection to the PC.

DIGITALYACHT KEYBOARDS

KB05 - Great compact USB keyboard that doesn't take up too much chart table space. Inbuilt 2 port USB hub, great for connecting dongles or memory sticks where getting access to the PC may be difficult.

KB55 - Wireless keyboard with inbuilt trackball, ideal for use in rougher seas where you can brace yourself against a bulkhead and hold the keyboard in your hands, operating the trackball with your thumb.

DIGITALYACHT USB TO NMEA

USB To NMEA Adaptor

Bi-directional NMEA to USB Adaptor which works on PCs, Mac and Linux computers and converts NMEA 0183 data used by many marine systems into a USB format that can be plugged into most modern computers. It supports traditional 4800 baud data or the higher speed 38400 baud rate used by AIS systems.

KEY FEATURES

- Plug and play connection to most PCs, Macs and Linux computers
- Bidirectional data conversion
- Inbuilt data indicator lights
- Multiple adaptors can be used with the computer
- Supports 4800 or 38400 baud rate

SUPPLIED WITH 1.8m cable, driver CD, SmarterTrack Lite AIS software

DIGITALYACHT GPS105

12 Channel WAAS/EGNOS GPS

Rugged, waterproof high sensitivity GPS ideal for use with DSC radios, radar, chart plotters or any other devices that require GPS data. Simple connection and zero configuration make it easy and reliable to install and use. Use with DigitalYacht's USB-NMEA adaptor cable to interface with a PC.

KEY FEATURES

- Suitable for 12v and 24v systems
- Low power consumption < 150mA
- On-board rechargeable battery
- Interference filter for radar and VHF channels
- NMEA 0183 v2.20 output

SUPPLIED WITH

Integral 1in 14TPI threaded base and 10m cable

DIGITALYACHT SMARTERTRACK

Navigation Software

Ideal for anyone with a dedicated chartplotter using Navionics Gold, Platinum or Platinum+ chart cartridges or is new to electronic charting and wants simple to use PC navigation software with excellent AIS support.

SmarterTrack turns your Windows XP/Vista/7 PC into a navigation tool that overlays your position and AIS targets onto the chart. AIS features include colour coded targets, user selectable target labelling, fully configurable CPA and TCPA alarms, visual indication of CPA, AIS targets drawn to scale and more. Programming routes, checking tides, depths or nav-aids on the chart and a host of other navigation tasks can be performed simply and effortlessly.

HOT PRODUCT

KEY FEATURES

- NMEA2000 compliant version available
- Customisable instrument displays
- Weather overlays (GRIB files)
- Displays all NMEA instrument data
- Transfer route and waypoints to your chartplotter
- Optimum departure time capability from tidal data
- Full set of configurable alarms
- Will display wireless NMEA0183 data from DigitalYacht iAIS, WLN10 and Boatranet products

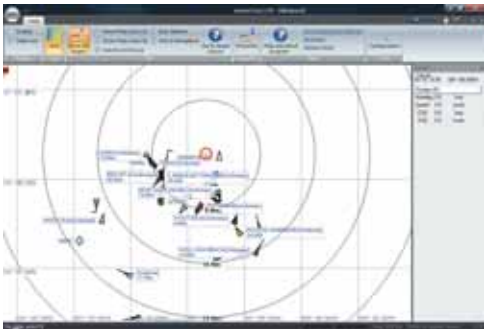
SUPPLIED WITH

Navionics USB cartridge reader, USB to NMEA2000 interface (NMEA2000 version only), CD-ROM, manual

DIGITALYACHT SMARTERTRACK LITE

PC AIS Display Software

A simple but effective graphical AIS display program for any PC running Windows XP/Vista/7. AIS data is meaningless unless it shows where the targets are in the real world relative to your vessel. SmarterTrack LITE does this by plotting all surrounding AIS targets on a world map or, as you zoom in, on a radar type screen with variable range rings. Features include colour coded targets, user selectable target labelling, target course lines and fast AIS information recovery, making it the ideal introduction to AIS software.



KEY FEATURES

- Graphical AIS display software plots all detected AIS targets on world map
- Automatically switches to AIS "Radar" type display as you zoom in
- Colour coded AIS Targets with course lines
- Each AIS target shown with user selectable label
- Can be upgraded to full SmarterTrack package

SUPPLIED WITH

Installation CD-ROM and manual

DIGITALYACHT WLN10 & WLN10HS

Wireless NMEA Server

Innovative and cost effective wireless device which creates its own 802.11b+g wireless access point which any other wireless device can connect to, such as a Smart Phone, Netbook or Laptop. Connect it to any device or system that has an NMEA0183 output - either 4800 baud (WLN10) or 38,400 baud (WLN10HS) and it'll automatically read the data and transmit it wirelessly to another device via TCP/IP protocol to a suitably compatible application such as SeaPro and Rose Point Coastal Explorer (PC), MacENC (Macs) or iNavX (iPhone/iPad).

KEY FEATURES

- Easy to install IP54 black box solution
- Can be fitted to any AIS unit, instrument system or other device with an NMEA 0183 output
- WLN10 - 4800 baud NMEA data rate
- WLN10HS - 38,400 baud NMEA data rate
- Free iAIS App for iPhone, iTouch or iPad

SUPPLIED WITH

1m Power/Data cable, Wifi Antenna, software CD and User Manual

DIGITALYACHT HSC100

Compass Sensor

Fluxgate compass to provide heading data to chartplotters, radar and instrument systems. Unlike most low cost heading sensors, the HSC100 outputs at 10Hz which is required for MARPA target tracking and accurate radar overlays.

KEY FEATURES

- Industry standard NMEA 0183 "HDG" output
- Gimballed to 45°
- Waterproof to IPx7
- Automatic calibration and manual compass offset feature
- Additional AD10 heading output for Furuno systems

SUPPLIED WITH

15m Cable and manual

DIGITALYACHT SMARTERCHART 500 AIS COMBO

5in Colour Chartplotter With AIS

The SmarterChart 500 AIS Combo from Digital Yacht is the world's first 5in chart plotter to feature an inbuilt AIS receiver. With all the features of the SmarterChart 500 Chartplotter, it effortlessly plots your position on the electronic chart and also overlays all AIS targets typically within 20 miles of your boat.

Sharing the same 5in sunlight viewable display as the other Smarter Chart 500 plotters, the AIS Combo is fully compatible with C-Map MAX charts, providing unprecedented value and detail. As the AIS receiver is inbuilt you don't have to worry about integrating a separate receiver unit, simply connect to a suitable antenna or splitter and you're ready to go! AIS target range, like VHF range is dependent upon installation factors such as antenna gain, antenna height and size of ground plane. Ranges in excess of 20-30 miles should be possible if all of these factors are ideal.

HOT PRODUCT

KEY FEATURES

- World's first 5in chart plotter with built-in AIS
- Full C-Map MAX chart compatibility
- 12v or 24v DC supply
- Worldwide built-in electronic charts showing C-Map detail down to a level of two nautical miles
- High sensitivity, dual channel AIS receiver - BNC connector for antenna
- 50 channel internal GPS (external GPS available as option)
- Requires connection to existing VHF/AIS antenna (optional accessory) or splitter

SUPPLIED WITH

Mounting brackets, 1m power/data cable, sun cover, fuse holder and user manual

Turn to the back page for pricing and ordering info NOW!

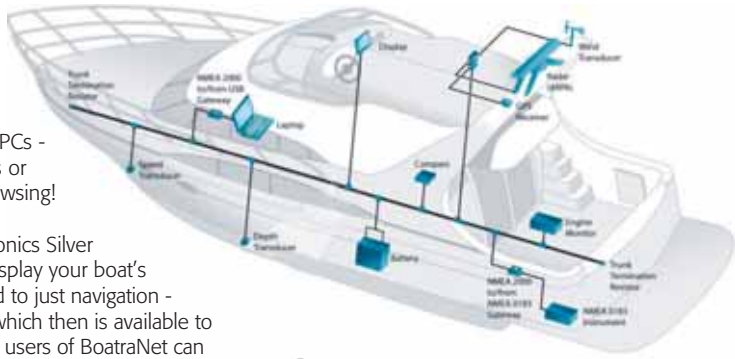
DigitalYacht

WiFi Access & Intranet Systems

DIGITALYACHT BOATRANET

Wireless Navigation Server

BoatraNet... the world's first wireless navigation server for boats!



BoatraNet integrates with the boat's navigation system via NMEA0183 or NMEA2000 and creates a dynamic website for the boat that can be accessed even at sea without an internet connection. It creates a wireless network that works with iPhones, iPads, iPod Touch, Android Devices, Smart Phones, Laptops, Windows, LINUX and Mac OS X PCs - in fact any wireless enabled device with a HTML5 compliant browser. No special apps or difficult setup are required, simply connect to the Boatranet WiFi hot spot and start browsing!

Featuring a Navionics based chart plotter, Boatranet can be supplied with optional Navionics Silver embedded cartography for your region (Europe, USA, Canada or ROW) and will then display your boat's position, the next waypoint and any AIS targets on the detailed chart. But it's not limited to just navigation - photos, documents, music and video etc can also be stored using a USB memory stick which then is available to all connected devices. Compatible with Digital Yacht's high power WL510 system, local users of BoatraNet can connect to marina hot spots to get internet access. What's more, BoatraNet automatically shares the internet connection allowing all of the wireless devices on the boat to access the internet!

KEY FEATURES

- 10-32v DC
- Less than 2A consumption
- Intel Atom D410 processor
- 1Gb RAM
- LINUX Server OS
- Fully HTML5 compliant
- Apache Web Server
- 802.11n Wireless LAN
- Two NMEA0183 Ports
- Optional NMEA2000 Gateway

HOT PRODUCT

DIGITALYACHT iNAVCONNECT

12v Wireless Router

All in one solution for setting up a wireless network on your boat. With direct connection to the boat's 12v or 24v DC, higher gain 5dB antenna and a rugged IP54 black box, iNAVConnect can be easily fitted to any GRP or wooden hulled vessel.

HOT PRODUCT

NEW FOR 2012

Pre-configured and optimised for connection to a Raymarine E Series network, allowing waypoints and routes to be instantly transferred between the iPhone/iPad and your Raymarine E Series plotter.

Full integration with Digital Yacht's WL510 long range Wi-Fi adaptor means everyone on board can share the long range internet connection when you arrive in port and connect to the marina's hotspot. The optional NMEA 0183 to TCP/IP interface allows it to wirelessly transmit all of the vessels NMEA 0183 data to any mobile wireless device running a navigation app compatible with TCP/IP data transfer.

KEY FEATURES

- Allows Navionics' "Plotter Sync" feature to wirelessly transfer routes and waypoints to E series plotter
- Integrates with Digital Yacht's WL510 long range Wi-Fi Adaptor
- Creates 802.11n wireless network with full WEP/WPA/WPA2 encrypted password protection
- Easy to install IP54 black box solution

SUPPLIED WITH

1m Power cable, 1m Network Cable, Wifi Antenna and User Manual

DIGITALYACHT WL50

Wi-Fi Booster

Compact all-in-one system, ideal temporary mount solution for boats, caravans, RVs etc which should boost your Wi-Fi range to over 0.5 miles in perfect conditions. With simple plug & play connection, it comes with all software and drivers for Windows XP, Vista, Mac OS X 10.3 (and higher) and LINUX.*

KEY FEATURES

- Ideal solution for temporary installation
- 200mW Wi-Fi modem and high gain (8dBm) omni-directional antenna
- 4 x suction cup mount
- USB bus powered

SUPPLIED WITH

Mounting Suction Cups, Mounting brackets, 5m USB cable, Driver CD

DIGITALYACHT WL400

High Power Wi-Fi System

Compact, all-in-one system supports 802.11b/g protocols as well as WEP and WPA encryption. Compatible with Windows XP/Vista/7, Mac OS X 10.3+ and LINUX* operating systems, we've seen ranges of up to 3-4 miles with this low cost system!

KEY FEATURES

- Ideal for semi-permanent installation
- Simple Plug and Play USB connection
- All in one 200mW Wi-Fi modem and high gain (12dBm) omni-directional antenna
- Industry standard 1in x 14 TPI thread mount
- USB Bus Powered

SUPPLIED WITH

5m USB cable, Driver CD

** Not tested with all LINUX distributions, but all of the latest Debian-based distributions should include these drivers*

DIGITALYACHT WL510

High Power Wi-Fi System

The WL510 allows boat owners to connect to Wi-Fi hot spots. With internet connectivity on board you can download the latest weather or chart updates as well as having a mobile office on board. The system has a compact 12v DC below deck 600mW booster/modem and an external 12dBm high gain antenna.

The WL510 modem connects to the PC via a regular RJ45 network cable for plug 'n' play, driver free operation on Windows XP/Vista/7, Mac OS X 10.3 (and higher) and LINUX operating systems. It supports 802.11b/g protocols as well as WEP/WPA/WPA2 encryption. Even if you already have Wi-Fi access you will still want to take advantage of the superior range and speed that this system will offer. Wi-Fi range depends on many factors, we've seen ranges of up to 4-6 miles with this low cost system.

NEW FOR 2012

KEY FEATURES

- Ideal for permanent installations and new builds
- Easy to set up and control from any browser via web-based interface
- 600mW Wi-Fi modem and high gain (12dBm) omni-directional antenna
- Industry standard 1in x 14 TPI thread mount
- Supplied with 10m of low loss coax cable
- 1m network cable can be extended with any CAT5 network cable up to 50m
- Requires connection to boat's 12v supply
- Windows XP/Vista/7 compatible
- Mac OS X and LINUX compatible

SUPPLIED WITH

WiFi modem, antenna with 10m cable, base mount, 1m network cable, User Manual

AIS Systems

DIGITALYACHT AIS100/AIS100USB/AIS100PRO

AIS Receivers

These value priced, entry level AIS receivers are Digital Yacht's most cost effective solution for adding AIS to your boat. Three models are available, all with the same dual frequency receiver - the AIS100 with NMEA0183 output, the AIS100USB with USB interface, or NEW FOR 2012, the AIS100PRO with multiplexed NMEA0183 input plus USB interface. For use with existing AIS compatible chart plotters, such as the latest Garmin, Raymarine, Navico, Standard Horizon and Furuno units. Connected to an existing VHF antenna via a splitter or to a dedicated AIS antenna, you can receive all AIS targets typically within 20 miles of your boat.

NEW FOR 2012

KEY FEATURES

- Low cost entry level AIS receivers
- High performance dual-channel AIS receiver for use with existing plotter and radar systems
- AIS100 - NMEA0183 output
- AIS100USB - USB output
- AIS100PRO - NMEA0183 and USB output, multiplexed NMEA0183 input
- Requires VHF antenna, dedicated AIS antenna (optional accessory) or splitter
- Easy to install IP54 black box solution

SUPPLIED WITH

Integral mounting brackets, 0.75m power/data cable, AIS Lite software on CD and User Manual

DIGITALYACHT AIS LIFE GUARD

AIS Man Overboard Alarm

The world's first AIS Man Overboard Alarm designed to work with the new generation of AIS SARTs. Many existing AIS compatible chart plotters don't fully support AIS SARTs, but connect the AIS Life Guard to an AIS receiver and you can have a complete working AIS SART man overboard system. Operation is automatic, simply connect the AIS Life Guard to the AIS receiver's NMEA output and it will listen to all AIS traffic.

An AIS SART transmission is indicated by the internal alarm and red warning light, it can also be connected to an external alarm. Both AIS Message 1 and Message 14 are detected, as well as AIS SART test messages. It is compatible with all Digital Yacht AIS receivers and transponders and it is designed to operate on 12v or 24v DC systems.

NEW FOR 2012

KEY FEATURES

- World's first dedicated AIS Man Overboard Alarm system
- Listens to AIS data on NMEA0183 Input
- Alarms when AIS SART message 1 and 14 are detected
- Internal 95dB buzzer with option to drive external alarm (not supplied)
- Audible and Visual Alarms
- Push button to silence alarm (short press) and reset alarm (long press)
- Easy to install IP54 black box solution

SUPPLIED WITH

Integral mounting brackets, 0.75m Power/Data cable and User Manual

DIGITALYACHT AIS200N2NET

Tri-Output AIS Receiver

Top of the range AIS receiver with Tri-Output connectivity, featuring the very latest AIS technology to give unrivalled levels of reception and data throughput. With easy connections to all of the latest PC navigation software and chart plotters, the AIS200N2NET matches and exceeds the performance of other more expensive, big brand AIS receivers. With NMEA 2000, dual NMEA 0183 and USB outputs, interfacing and installation is simple and it supports all of the latest AIS message types including AIS SARTs, AtoNs and base stations. Connected to an existing VHF antenna (via a splitter) or dedicated AIS antenna, you'll receive all AIS targets within range – typically up to 30nm. Simple plug and play USB connection to a PC running Windows, Mac OSX or LINUX Kernels since V2.4.20, the AIS200N2NET is automatically mapped to an available "virtual" com port.

The AIS200N2NET has dual NMEA0183 outputs - one provides AIS data only, the other multiplexes AIS data with the NMEA 0183 data it receives on the NMEA input (4800 baud). With NMEA 2000 and USB output capability, the AIS200N2NET can provide AIS feeds to multiple equipment at the same time, great for larger more complex installations.

NEW FOR 2012

KEY FEATURES

- Latest generation AIS Technology - featuring a brand new AIS receiver design
- Tri-Output: NMEA2000, NMEA0183 and USB PC
- High performance dual channel AIS receiver for use with existing plotter and radar systems
- Rugged IPX5 aluminium housing
- USB Interface for simple plug and play connection to a PC
- Two high speed NMEA outputs (38,400 baud)
- Requires VHF antenna, dedicated AIS antenna (optional accessory) or splitter
- Multiplexed NMEA input for single NMEA GPS+AIS data output on all three ports
- Simple "fit and forget" black box solution

SUPPLIED WITH

Mounting brackets, 1m Power/Data cable, 1m USB Cable, 0.5m NMEA2000 cable, AIS Lite software on CD and User Manual

DIGITALYACHT iAIS

Wireless Tri-Output AIS Receiver

The world's first AIS receiver that links wirelessly with the latest iPhone, iPad and iTouch devices. Consisting of a high performance dual channel AIS receiver and an integrated 802.11b+g wireless access point, the iAIS also multiplexes any other NMEA data available - GPS, depth, speed and wind etc., all of which is available to any compatible application. By using the boat's own GPS, even an iPod Touch or iPad that does not have an internal GPS can now be used for navigation and superior performance will also be seen on an iPhone.

The iAIS also has an NMEA0183 and USB interface so that you can output data to a PC or a dedicated plotter. The free iAIS app from the App Store is a simple AIS display program, for more advanced use DigitalYacht recommends the iNavX app (www.inavx.com). Compatible with Navionics charts, iNavX provides a complete set of navigation functions that turns your Apple device into a full function chartplotter with waypoints, route and tidal data and GRIB weather data overlay.

HOT PRODUCT

KEY FEATURES

- Tri-output - WiFi, NMEA 0183 and USB
- Integrated 802.11b+g wireless access point
- Fully compatible with iNavX navigation application for Apple mobile devices
- Simple "fit and forget" black box solution
- Requires VHF antenna, dedicated AIS antenna (optional accessory) or splitter

SUPPLIED WITH

Mounting brackets, 1m Power/Data cable, 1m USB Cable, iAIS app (from Apple App Store), software CD and User Manual

Turn to the back page for pricing and ordering info NOW!

DIGITALYACHT AIT2000

Black Box AIS Class B Transponder

This ultra-compact Class B Transponder uses the latest AIS Transponder technology to squeeze more performance and interfacing options in to a housing that is half the size of the previous generation. Featuring a remote silence button option, two NMEA 0183 Inputs and Outputs, NMEA 2000 and USB connections, the AIT2000 is the perfect AIS transponder solution for all light marine vessels up to 300 tons. Configuration of your vessel's fixed data such as MMSI, call sign, boat name, dimensions etc. is made easy with the Windows and Mac compatible proAIS2 software included. As well as transmitting your own vessel's position so that other AIS equipped vessels know where you are, the AIT2000, when connected to an existing VHF antenna (via a splitter) or dedicated AIS antenna, will receive all AIS targets within range of your boat - typically up to 30NM.

NEW FOR 2012

KEY FEATURES

- Easy to install black box solution
- Latest generation AIS technology featuring a brand new AIS transponder design
- Ideal for use with existing plotter and radar systems
- Built-in high performance 50 channel GPS receiver (ideal also as a backup GPS)
- USB Interface for simple plug and play connection to a PC or Mac
- Includes N2Net interface and cable for connection to NMEA 2000 network
- 2 x NMEA0183 outputs - one high speed (38,400 baud) with AIS + GPS + multiplexed data and the other 4800 baud for GPS output to DSC VHF Radio
- Comes complete with GPS antenna with integral 1"x14TPI thread mount
- Requires VHF antenna or dedicated AIS antenna (available as optional accessory) or splitter (SPL250)
- Remote Silence Switch option
- Supplied with programming software for user programming

SUPPLIED WITH

0.75m Power/Data cable, 0.75m USB cable, 0.75m N2Net cable, GPS Antenna with 7.5m cable, AIS software on CD and User Manual

DIGITALYACHT ANT200

AIS Smart Antenna Receiver

Perfect "all in one" AIS Smart Antenna solution for small boats, particularly RIBs, sports boats and small yachts, where dry space to mount black box AIS units is limited.

HOT PRODUCT

KEY FEATURES

- High performance dual channel AIS receiver for use with existing chartplotter and radar systems
- Multiplexed NMEA input for single NMEA GPS
- High speed (38,400 baud) NMEA output of both GPS and AIS data to chartplotter, radar etc
- Integral 1in x 14 TPI thread for standard VHF mounts

SUPPLIED WITH

15m Power/Data cable, AIS Lite software, User Manual

DIGITALYACHT uAIS

USB Powered AIS Smart Antenna Receiver

Perfect "all in one" solution for anyone using a Laptop on a small boat that wants to receive AIS data. Uses standard Windows XP/Vista/7 drivers and is automatically mapped to an available "virtual" com port, which your PC software can read. Also compatible with Mac OS X and all LINUX Kernels since V2.4.20. For use with any AIS compatible PC navigation software, such as the latest SmarterTrack, MaxSea, SeaPro, Nobeltec and RosePoint applications.

KEY FEATURES

- Integral 1" x 14 TPI thread for fixing to standard VHF mounts
- Simple plug and play USB connection to a PC
- High performance dual channel AIS receiver
- High speed NMEA output (38,400 baud)

NEW FOR 2012

SUPPLIED WITH

5m USB cable, AIS Lite software, User Manual

DIGITALYACHT AISnet

Internet Base Station

AIS base station receiver for use at home or in the office. With the same high performance dual channel AIS receiver as the rest of the Digital Yacht range, AISnet features an ethernet socket so that you can connect it to your broadband router and send AIS data to an online AIS tracking service. There are now a large number of websites which offer a view of AIS equipped vessels on a background chart allowing users to check the position and identity of ships and yachts. If your are close to the coast and you would like to contribute your data to one of these sites, simply register with the company and they will give you an IP address and port number.

It takes seconds to program the IP address and port into AISnet, which then start sending your local AIS data across the internet to be displayed on the site. It is also possible to view the AIS data on your PC using the free SmarterTrack Lite software included with AISnet. Simply plug the USB connector into your PC and the AIS data will appear on your PC and still be transmitted over the internet.

KEY FEATURES

- Integrated ethernet network controller for supplying AIS data to AIS websites
- High performance dual channel AIS receiver
- Simple configuration via free setup program
- USB Interface for simple plug and play connection to a PC
- Requires VHF antenna, dedicated AIS antenna (optional accessory) or splitter
- Simple "fit and forget" black box solution

SUPPLIED WITH

UK/Euro/US mains adaptor, 1m USB Cable, AIS Lite + Setup software on CD and User Manual

DIGITALYACHT SPL250

AIS Antenna Splitter

Removes the need for a separate VHF antenna for an AIS transponder and allows a single antenna to be shared with a VHF radio. This is the only VHF antenna splitter suitable for use with two transmitting devices. Compatible with all Class B AIS transponders and AIS receivers.

KEY FEATURES

- Saves installation time and cost
- Guarantees priority to VHF voice and DSC radio operation even if the splitter power supply fails
- Additional output for FM radio antenna connection

SUPPLIED WITH

RF leads for connection with AIS transponder, VHF radio and a power lead

DIGITALYACHT HA156

AIS VHF Stub Antenna

This compact, ultra lightweight 0.2m antenna is optimised for AIS use and is ideal for use with all DigitalYacht AIS receivers and transponders.

Important Note: The 20m cable fitted to this antenna acts as a tuned ground plane and should not be shortened or lengthened.

KEY FEATURES

- Tuned for optimum gain and performance at AIS frequencies
- Unobtrusive design for mounting at deck level
- Can be used as emergency backup VHF aerial
- Bayonet (BNC) fitting for quick connection

DIGITALYACHT AA10

AIS VHF Whip Antenna

A 47cm whip antenna which is ideal if you want a dedicated AIS antenna instead of using your current VHF antenna with a splitter. It is supplied with 10m cable and fitted with a neat fast fit coupler, which allows the cable to be routed without having to cut off and reconnect the plug.

KEY FEATURES

- Integral 1in 14TPI industry standard VHF mount
- Miniature FME connector (with BNC adaptor) for easier routing of the cable through the boat
- Can be used as an emergency backup VHF antenna

Digital Deep Sea

Commercial AIS Systems

DIGITAL DEEP SEA

Introduction To Digital Deep Sea

Digital Deep Sea is Digital Yacht's sister division that designs and manufactures products to meet the needs of the fishing, workboat, naval, deep sea, superyacht and commercial sectors. Digital Deep Sea systems are designed for demanding professional conditions and minimum in service costs, offering great performance and terrific value for the professional mariner.

DIGITAL DEEP SEA CLA1000

Class A AIS Transponder

A Class A AIS transponder is a mandatory fit on all commercial vessels over 300 tons and is also required on many smaller passenger carrying vessels. The CLA1000 meets all the global approvals and can consequently be fitted on any IMO vessel. It provides an automatic transmission of the vessel's own position, speed and heading to other AIS equipped vessels within VHF range.

It features a large LCD display which lists all AIS targets within range and can also provide a graphical target plot. The CLA1000 provides alarms for Closest Point of Approach (CPA) and Time to Closest Point of Approach (TCPA) for any potential targets on a collision course. Measuring just 195mm x 105mm, the CLA1000 is currently one of the world's smallest Class A AIS systems available.

It also incorporates a universal pilot plug which allows quick and easy connection of a PC running electronic chart plotting software, allowing GPS and AIS data to be overlaid onto the chart. Digital Deep Sea have developed their own range of PC programs and accessory cables which allow quick and easy programming of static data into the transponder without the use of the dedicated display.

KEY FEATURES

- Fully approved and MED Wheel Marked Class A AIS transponder
- Full Class A functionality with dedicated controller
- Ultra compact design with 240x128 pixel backlit LCD display
- Automatic transmission of vessel's own position, identity, speed and heading toother AIS equipped vessels within VHF range
- Easy soft key and rotary encoder operation
- Positively identify other AIS targets with name, call sign and MMSI data
- See an overlay of targets on a graphical plot
- Automatically calculate closest point of approach (CPA) and time to closest point of approach (TCPA)
- Pilot plug for PC connections
- Remote break out box for interfacing with ext alarms, ECS and ECDIS systems
- Inbuilt GPS with GPS antenna supplied

SUPPLIED WITH

PC tracking software, GPS antenna. VHF antenna required (optional accessory)

DIGITAL DEEP SEA ARX100

Class B AIS Receiver

Suitable for non-SOLAS mandate vessels, the ARX100 offers exceptional sensitivity and target acquisition capability. With USB and NMEA output, it can be integrated with compatible chartplotter, radar and PC systems and AIS data overlaid onto the chart. Connect the NMEA0183 (4800 baud) output of your GPS to the ARX100 and it will automatically multiplex (merge) the slower GPS data with the high speed AIS data and transmit everything on one high speed NMEA output, ideal for systems with limited available NMEA inputs.

KEY FEATURES

- NMEA0183 (38400 baud) output
- USB PC connection
- 4800 baud NMEA GPS input
- Multiplexes GPS and AIS input
- Requires suitable VHF antenna

Mounting brackets, 1m Power/Data cable, 1m USB Cable, AIS Lite software, User Manual

DIGITAL DEEP SEA PILOT PLUG CABLE

Class A PC Pilot Plug USB Connection Cable

The Digital Deep Sea Pilot Plug Cable allows Commercial Pilots etc to connect their laptop PC to a Class A Transponder via its Pilot Plug. This cable also allows some Class A transponder models to be configured with the static AIS data and / or mandatory voyage data that must be programmed in before starting a passage.

KEY FEATURES

- Low cost simple solution
- 1.8m cable
- Bidirectional data connection
- Confirms to the IMO SN/Circ.227
- Fully NMEA 0183 compatible (differential RS422)
- Built-in indicator lights flash to show data is being received and transmitted
- Easy plug and play connection to most computers (Windows/Mac/LINUX)

SUPPLIED WITH

1.8m Cable, Driver CD with SmarterTrack Lite AIS software, User Manual

DIGITAL DEEP SEA CLB1000

Class B AIS Transponder

Featuring dual NMEA and USB connections, remote silence button option, four status LEDs and rugged vibration-proof mounting brackets the CLB1000 is an ideal AIS transponder solution for all light marine vessels up to 300 tons. When connected to an existing VHF antenna via a splitter or dedicated AIS antenna the CLB1000 will transmit your vessel's position so that other AIS equipped vessels know where you are as well as receive all AIS targets within range of your boat.

Configuration of your vessel's fixed data - MMSI, call sign, boat name, dimensions etc is made easy with the included Windows compatible proAIS software. The unit can be connected to a PC running suitable navigation software or a dedicated chart plotter. With simple plug and play USB connection to a PC, it uses standard Windows XP/Vista/7 drivers and is automatically mapped to an available "virtual" com port, which your PC software can read. Also compatible with Mac OS X and all LINUX Kernels since V2.4.20.

The CLB1000 automatically outputs AIS and GPS data together on both the USB and NMEA ports, plus it will also retransmit (multiplex) any valid NMEA0183 data that it receives on its NMEA input.

KEY FEATURES

- High-performance Clas B AIS Transponder sends and receives AIS data
- Easy to install black box solution
- Ideal for use with existing plotter and radar systems
- Built-in GPS receiver (ideal also as a backup GPS)
- USB Interface for simple plug and play connection to a PC
- High speed 38,400baud NMEA output compatible with industry standard plotters
- Remote silence function
- Supplied with user programming software *(Except US where dealer programming required)*
- Requires VHF antenna, dedicated AIS antenna (optional accessory) or splitter

SUPPLIED WITH

Mounting brackets, 0.75m Power/Data cable, 0.75m USB cable, Low Profile GPS Antenna with 7.5m cable, AIS software and User Manual

Turn to the back page for pricing and ordering info NOW!

Scanstrut

Marine Electronics Mounts & Electronic Accessories

Scanstrut offers a comprehensive range of installation solutions to maximise the performance of your marine electronics. All major antenna brands and models are catered for, with options for mounting radar, satcom, GPS, VHF and TV aerials and nav lights. For further product information visit www.scanstrut.com.

SCANSTRUT WATERPROOF IPAD CASE

Go anywhere – inshore, offshore, onboard, overboard. Integrate with your onboard systems and retains full touchscreen and camera functionality.

KEY FEATURES
- Easy to fit and remove
- Slim enough to be left on permanently
- Most compact waterproof case on the market
- IP67 waterproof and shockproof
- Models for iPad 1 and 2

SCANSTRUT UV MONITOR

Have you ever come back to shore and found that you were sunburnt? Protect yourself and your crew by raising your UV awareness and avoid accidental sun exposure.

KEY FEATURES
- Auto activates upon exposure to sun and UV
- Displays UV levels using UV Index Scale (0-11)
- Solar powered, no batteries required
- LEDs highlight UV strength

SCANSTRUT MAST MOUNTS

Mast Platforms

RADAR SATCOM CAMERA

Scanstrut Mast Mounts are a popular choice for mounting radar or satcom antenna onto your yacht's mast, raising the antenna clear of any obstructions or interference.

EDITOR'S CHOICE

KEY FEATURES
- **Universal Mounting:** Attach to any mast with four swivel feet
- **Strong Fixing:** 12 point fixing using high quality monel rivets
- Safety wire kit independently attaches scanner to mast in case an accident damages the installation

SCANSTRUT SC100

Pole Mount

RADAR SATCOM

Available in Aluminium, Stainless Steel and Carbon. Complete kit with everything needed for quick and easy installation.

KEY FEATURES
- Two heights - 1.9m recommended for deck mounting and 2.5m recommended for transom mounting
- 360° adjustable base fits angled decks & sloping transoms
- Supplied with two support modules for maximum fore/aft support

ALSO AVAILABLE

SC2 Pole Mount for larger radomes, open array antennas and satcoms, choice of 1m deck mounted and 3m or 4m through deck mounted versions

ACCESSORIES

Lifting Crane, 55W Halogen Deck Flood Light, Light & GPS/VHF Antenna Mounts

SCANSTRUT SELF-LEVELLING RADAR MOUNT

Mast, Backstay or Pole Antenna Mount

RADAR

TESTED BY YACHTING MONTHLY AND PROVEN TO GIVE PICTURE PERFECT RADAR PERFORMANCE.

Ensures radar stays level with the horizon at all times for optimum antenna performance. Hydraulic damping eliminates minor oscillations. Single GPS / VHF mounting accessory available.

MAST MOUNTED
- Reduced weight aloft, weighs only 3.4 kg

HOT PRODUCT

BACKSTAY MOUNTED
- Options to mount fore or aft of backstay
- Suitable for single and split backstays
- 2.6m aluminium mounting polel
- High strength universal base eliminates loading on backstay
- Deck, transom or chainplate mount

POLE MOUNTED
- 360° adjustable base enables installation on sloping transoms and level decks
- 2.5m mounting pole
- Option to install both satcom and radar on one pole mount

SCANSTRUT SCANPOD

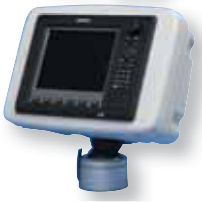
Instrument Mounting Pods

For mounting chartplotters, radar displays, instruments and autopilot controls, manufactured from acrylic capped ABS plastic in high gloss silver or white.

HELM PODS
- No drill fixing kit - unique clamping system provides universal fit to all pedestal rails 25mm - 33.7mm dia.
- Fits rail widths from 178mm (7in)

FLEX MOUNT SYSTEM ACCESSORY
- Tilt display forward / back and side to side for best viewing angle
- Clamp onto existing rail or steering binnacle - install Helm Pod as normal

MAST PODS
- Universal mounting system fits a wide range of mast sizes (76 - 223mm)
- Carbon Mast Pod - lightweight unit designed to fit 3 or 4 maxi instruments



DECK PODS
- Quick release lever to alter the angle of the screen quickly
- Adjustable base allows a range of movement and multiple mounting angles

Marine Electronics Mounts

SCANSTRUT POWERTOWER

Antenna Mount

RADAR SATCOM

Mount 2kW, 4kW radomes or small satcom antennas on the cabin roof, flybridge or radar arch, giving a clear view of the horizon for maximum antenna performance. Pre-fitted IP65 cable gland and watertight base seal.

COMPOSITE POWERTOWER
- Choice of heights - 150mm or 350mm
- 200mm² footprint
- 30° aft leaning profile

STAINLESS POWERTOWER
- Small footprint - only 150mm² mounting footprint makes it ideal for use on narrow arches or RIB A-frames
- 150mm height
- 30° aft leaning profile

ALUMINIUM POWERTOWER
- Choice of heights - 130mm or 250mm
- 30° aft leaning (open array) or 25° forward lean (radomes) profiles
- 180mm² footprint

SCANSTRUT DUAL POWERTOWER

Antenna Mount

RADAR SATCOM

For radomes or open-array antenna and 30cm, 40cm or 60cm satcom antennas.

KEY FEATURES
- Installs satcom antenna above the radar - eliminates antenna interference, ensures maximum performance
- Accessory available - install additional lights

SCANSTRUT SATCOM POWERTOWER

Antenna Mount

SATCOM

For 30cm, 40cm and 60cm satcom antennas

KEY FEATURES
- Raises antenna by 300mm for maximum performance
- Two models available - 30° aft leaning Stainless and vertical profile Aluminum

POWERTOWER ACCESSORIES
Gantry Mount, Light GPS & VHF Antenna Mounts and 4° Base Wedge.

SCANSTRUT SATCOM ANTENNA MOUNT

Satcom Dome Mounts

SATCOM

For 30cm, 40cm and 60cm satcom/tv antennas.

KEY FEATURES
- Reduce antenna footprint by up to 60%, providing greater choice of antenna position
- Watertight seal and gland systems

ACCESSORIES
Adjustable Base Wedge (provides level mounting platform for antenna)

SCANSTRUT ROK-LOK

Electronics Mount

DISPLAYS

Multi position mount for small electronic devices onboard. Install fishfinders and chartplotters at the helm, RIB console, fishing boat dashboard, nav station and more.

NEW FOR 2012

KEY FEATURES
- Ball and socket gives smooth secure adjustment
- Locking design provides rock solid platform and high clamping forces

SCANSTRUT TAPERED MAST

Antenna Mount

RADAR SATCOM GPS/VHF LIGHTS CAMERA

Single combination mount for radar, lights, GPS and VHF antennas, cameras and searchlights, with each item perfectly positioned for maximum performance.

KEY FEATURES
- Removable wings for safe low cost shipping
- Hollow wings and stem allow hidden cabling
- Option to fit search light or camera
- NEW - Mount additional satcom

SCANSTRUT T-BAR / T-POLE / RAIL MOUNT

Antenna Mounts

GPS/VHF

Cost effective mounts for up to 4 GPS / VHF antennas. Easy to install and ideal for both sail and powerboats.

KEY FEATURES
- T-Pole - 1.5m adjustable height, fits to flat or sloping surfaces
- T-Bar - Mount to upright stanchions, sloping transoms, cabin roofs
- Rail Mount - Mount to rails, standard 1in by 14 tpi thread

SCANSTRUT DECK SEAL

Waterproof Cable Routing

100% WATERPROOF - IPX6 & IPX7 tested and approved. Provides waterproof cable routing with options for 16mm to 40mm connectors. Supplied with both pre-drilled and blank inner seals

KEY FEATURES
- Aesthetic dome-shaped profile provides a stronger, impact-resistant design
- Split-seal option does not require connector removal during install
- Available in 30% Glass-filled Nylon or 316 stainless steel
- Long life stainless fastenings with captive nuts
- Tapered bung forms watertight seal

MULTI DECK SEAL
- Supplied with 1 blank seal
- Marine grade aluminium with hard anodised finish to resist impact marks

SCANSTRUT THROUGH BULKHEAD CABLE SEAL

Eliminate time consuming, sub-standard routing of cables through watertight bulkheads.

NEW FOR 2012

KEY FEATURES
- Access required from only one side of bulkhead
- Push cables through pierceable membrane
- Options for 4 x 15mm cables or 10 x 7mm cables

SCANSTRUT JUNCTION BOXES

Secure, watertight connections for marine electrical cables anywhere on board.

NEW FOR 2012

KEY FEATURES
- 'Standard' 5 screw down terminals or 'deluxe' 10 fast fit terminals
- IP66 membrane guarantees waterproofing
- Upgrade to IP67 with seal upgrade kit

Turn to the back page for pricing and ordering info NOW!

PRICES CHANGE DAILY
LOG ONTO OUR WEBSITE
TO SEE THE LATEST DEALS

KVH, Nauticomp

Satcoms, Sat TV & LCD Displays

KVH TRACPHONE V3

Voice and Broadband Internet Access

At 14.5 inches (37 cm) in diameter, the Tracphone V3 is the world's smallest maritime VSAT antenna. With airtime rates 1/10th the cost of Inmarsat it's the perfect solution for staying in touch. Enjoy surfing the web, communicating via e-mail, and calling home with a system designed for boats as small as 30 feet!

KEY FEATURES

- Complete with 14.5in antenna, ACU and modem
- ViaSat Arclight® spread spectrum technology for seamless global roaming
- Dynamic, gyro-stabilised tracking
- Integrated WiFi and Ethernet hub
- Download speeds as fast as 2 Mbps
- KVH's Enhanced Voice Service technology for crystal clear calling
- Rugged, commercial-grade, high-performance antenna design for tracking in bad weather

NEW FOR 2012

KVH TRACPHONE FB150

Broadband Internet Access

Now, even small boat owners can have access to weather data, sea conditions, chart updates and communication when at sea! Low cost air-time packages and affordable hardware/airtime bundles.

KEY FEATURES

- Designed for the harsh marine environment
- Always-available 150 Kbps data connection with outstanding quality voice and text messaging
- Rugged, compact antenna is reliable, simple to install, and easy to integrate with your computer or phone network
- Global coverage via Inmarsat's I-4 satellite network

KVH TRACVISION M2

"At Anchor" Satellite TV System

A great choice for those who want to watch Satellite TV while at anchor or at the dock, offering the highest signal strength available for "at-anchor" systems. The high-efficiency antenna features Ring Fire™ technology, which offers reception and signal gain previously only available in 18in diameter systems! Enjoy KVH's award-winning quality and reliability at an affordable price thanks to this fully automatic system.

HOT PRODUCT

KEY FEATURES

- Height 45cm, diameter 40cm
- Ideal for use on boats as small as 25 feet
- Fully automatic satellite acquisition and satellite
- Ultra-quiet motors, no cable wrap, single-cable install, user-friendly onscreen set-up and control

SUPPLIED WITH

Deluxe integrated 12V mobile receiver, backlit RF/IR remote control, 15m Antenna cable. Requires a digibox or satellite decoder (eg Sky box)

NAUTICOMP INFINITY II

15in & 19in LCD Displays

The cost effective Infinity II features highly efficient CCFL or LED backlight technology, combining the best cutting edge technology with ease of use and a slim case design.

KEY FEATURES

- Sunlight viewable, waterproof to IP67
- Bonded glass - optically enhanced for clarity
- Deep dimming - 0 to 100%
- Superior image - scalable resolution up to SXGA
- Extended temperature range
- DVI, VGA and composite (optional) inputs
- Picture in Picture

KVH TRACPHONE V7

Broadband Internet Access

The perfect solution if you're looking for data-only communications at broadband speeds. Consistent, high quality data connections, crystal clear multiple VoIP telephone lines and low cost always-on, fixed price or per-Mb subscriptions, ideal for heavy data use.

KEY FEATURES

- Seamless regional roaming
- 85% smaller, 75% lighter than standard VSAT antennas, with dynamic, gyro-stabilised tracking
- Integrated WiFi and Ethernet hub
- Up to 512Kbps for ship-to-shore transmissions
- Up to 2Mbps for shore-to-ship downloads
- Military-grade modem for outstanding performance

KVH TRACVISION M3DX

Compact Satellite TV System

If you thought your boat was too small for satellite TV then think again! The world's smallest, fully stabilised mobile satellite television antenna system is ideal for boats as small as 25ft! The ultra-compact 40cm antenna weighs only 8.6kg and gives crystal-clear reception and coverage comparable to the larger sat TV antennas. Supports multiple receiver/TV installations.

KEY FEATURES

- Great offshore coverage (100-200 miles)
- Fast, powerful, ultra-quiet motors
- Fully automatic satellite acquisition
- Single LNB - simple single cable installation
- Voltage 9-16V DC, power consumption 50W
- Height 45cm, diameter 40cm

SUPPLIED WITH

Deluxe integrated 12V mobile receiver, backlit RF/IR remote control, 15m Antenna cable. Requires a digibox or satellite decoder (eg Sky box)

NAUTICOMP INFINITY PRO

15in & 19in LCD Displays

With the smallest chassis frame and user friendly controls, all functions are easily accessed via the compact external keypad allowing the user to quickly and easily switch between inputs, and even switch between auto or manual input selection. Up to 3 inputs per screen.

KEY FEATURES

- Sunlight viewable, waterproof to IP67
- Bonded glass - optically enhanced for clarity
- Deep dimming - 0 to 100%
- Extended temperature range
- Superior image - scalable resolution up to SXGA
- DVI, VGA and composite (optional) inputs
- Picture in Picture

KVH TRACPHONE FB250/FB500

Voice and Broadband Internet Access

The perfect solution for boat owners who high speed "always on" broadband access to email, the internet and Virtual Private Networks (VPNs) as well as simultaneous, reliable telephone service at an affordable rate.

HOT PRODUCT

KEY FEATURES

- Fully automatic operation and dynamic stabilisation, even in the roughest seas
- No monthly fees, affordable pay-as-you-go service
- Convenient shipwide integration with PABX systems
- FB250 up to 284Kbps standard, 128Kbps streaming
- FB500 up to 432Kbps standard, 256Kbps streaming

KVH TRACVISION M5, M7 & M9

HDTV Satellite TV Systems

Enjoy HD programming from any leading provider with automatic satellite switching directly from the remote control! Unsurpassed High-Performance DVB® tracking.

KEY FEATURES

- Tracvision M5 - 45cm system ideal for 40-60ft boats, weight 13.6Kg, power consumption 50W
- Tracvision M7 - 60cm system ideal for 60-80ft boats, weight 25Kg, power consumption 55W
- Tracvision M9 - 82cm system with integral Gyro/GPS and Remote Service Modem ideal for 80ft+ boats, weight 38.5Kg, power consumption 120W
- RingFire technology gives 30% greater reception and range than any other comparably sized system
- Superior offshore performance
- M5 & M7 - optional GyroTrac gyrocompass upgrade
- Supports multiple TVs and receivers

We accept most major credit and debit cards

Introduction To Satellite TV

Find out more...

Choosing the right antenna

In recent years brands like Intellian have taken marine satellite TV - once only something you saw on superyachts - and brought it to the small boat owner. But with a range of antenna sizes from 11 to 33.5in, the biggest question is - which is the right one for my boat?

Where are you headed?

Where you're planning on sailing to has a lot to do with which Intellian antenna you need. For example, the entry-level **i1** is ideal if you're just doing some cruising in UK coastal waters, if you're going further afield the **i2** or **i3** antennas are perfect. But if you're planning on doing some serious bluewater sailing or cruising northern latitudes then you may need to step up to the **i4** or **i6**. Intellian has a full range of antenna systems to suit your needs.

The map below shows the typical footprint of the Astra 2A satellite, covering most of the Europe. The coloured bands indicate the typical reception ranges of the Intellian dome models. Compare this to where you're headed, then talk with us to make sure you get exactly what you need.

NOTE - *The map is for information purposes only. The actual coverage can be variable dependant on weather conditions. Intellian make no warranties as to the coverage area here and the information can be changed without notice.*

Key	Antenna Size	Product
	125cm (50")	Intellian t130
	105cm (41")	Intellian t110
	85cm (33.5")	Intellian i9P
	60cm (23.6")	Intellian i6/i6P/i6PE
	45cm (17.7")	Intellian i4/i4P
	37cm (14.6")	Intellian i3
	33cm (13.0")	Intellian i2
	28cm (11.0")	Intellian i1

What about...

What else will I need?

It's important to understand that a marine sat TV system only provides you with a means of tracking and receiving satellite signals. In order to receive actual programming you will need to connect this to a set-top unit (STU), sometimes referred to as a *digibox* from a TV service provider, either subscription based or a free to view service.

The best known subscription based service in the UK and Ireland is Sky Digital, which currently gives access to almost 700 TV and radio channels. It is certainly possible to receive Sky services via an Intellian system, however this introduces an extra level of complexity regarding setting up the service, as there will now be a monthly subscription to pay and Sky have certain requirements of their subscribers - for example, they normally require that their digibox is connected to a phone line, which could cause some problems on a boat. If you are certain that you want to receive Sky broadcasts, we recommend you call and talk to our Sat TV experts who will be able to recommend the best arrangement to suit your needs.

If this is sounding too involved for your needs, a simpler system to consider is a free to view service such as Freesat.

What is Freesat?

Freesat is a free-to-air digital satellite television service developed by the BBC and ITV. Best described as the satellite alternative to the terrestrial Freeview service, it currently offers over 140 TV and radio channels without subscription to users, including HDTV services. There is a one-time cost when you purchase the set top unit, after that the programming is free.

Freesat uses the Astra and Eurobird satellites, so you will be able to use Freesat services within the footprint of these satellites.

Some of the 140+ FreeSat channels

Can I get all Freeview channels On Freesat?

Because of contractual issues, some Freeview channels are not available on Freesat. Channel1, TMF, 4Music, UKTV History, Dave, Five US, Fiver, Sky3 and Sky Sports News are all available on Freeview but encrypted on digital satellite. Sky News is not encrypted but is not available on the Freesat EPG. Channel availability also varies depending on which Freesat set-top box you are using.

Whether you are planning on using Intellian with Sky, Freesat or another provider it should also be noted that the satellites have more than one beam which have different footprints (eg Astra 2D has a North and South beam) and the channels available vary depending which beam you are receiving.

INTELLIAN

Satellite TV & Satellite Communication Systems

The advanced technology of Intellian's satellite antennas has long delivered the sharpest, most reliable satellite television reception at sea. In fact, Intellian's proven satellite television antenna systems can be found today on some of the finest yachts and vessels in more than 40 countries around the world.

Exclusive Intellian satellite TV antenna system features include patent-pending Wide Range Search (WRS) algorithm for faster signal acquisition, Advanced Dynamic Beam Tilting (DBT) for optimum signal stability in heavy seas, an innovative built-in GPS on Intellian i3, i4, i6 and i9 series which automatically uploads data and Auto Skew Angle Control System (i4P version only). The complete system includes Antenna, Radome and Antenna Control Unit (ACU) for simple installation and easy control.

For 2010, Intellian brings boaters a full line of high-performance satellite systems for a range of power and sailboats worldwide including Fleet Broadband communications systems, so now Intellian can fulfill all your Sat TV AND Satcom needs.

INTELLIAN i1

11in Satellite TV Antenna System

The Intellian i1 system has the world's smallest in-motion marine satellite TV antenna ever, perfect for small boats. It brings the boaters an affordable, yet luxurious entertainment system to access their favourite satellite TV channels freely whether in port or cruising coastal waters. Wide Range Search (WRS) and Dynamic Beam Tilting (DBT) technologies make fragile motion sensors unnecessary with the most precise tracking capability and superior satellite signal reception at high speed or in rough sea conditions. The more up-to-date design of the i1 has an intelligent, built-in TriSat module in its control unit that offers boaters satellite TV broadcasts automatically without any extra conversion boxes and wiring.

KEY FEATURES

- High quality antenna with 2-axis step motor
- Fully automated satellite search
- LHCP/RHCP or Horizontal/Vertical polarisation
- Superior dynamic tracking
- Fastest Wide Range Search (WRS) algorithm
- DVB signal identification
- Inbuilt NMEA 0183 GPS interface
- Easy satellite information change and update
- Easy antenna status check and automatic diagnosis
- Easy antenna control using PC interface
- Reliable power supply to the antenna
- Embedded TriSat function
- Easy installation - single cable from the ACU to the antenna

INTELLIAN i2

13in Satellite TV Antenna System

The Intellian i2 is the world's first high-performance and compact satellite TV system with integrated HD and TriSat modules. The i2 is an absolute choice for boats as small as 25ft with its small, simple and powerful designs. WRS and DBT technologies maintain the highest signal strength available for crystal-clear TV reception even in rough conditions. The new intelligent Antenna Control Unit (ACU) offers a complete turnkey solution designed for simplicity and ease. To enjoy as many as three different satellites, the ACU supports automatic satellite switching right from your remote control just like home.

KEY FEATURES

- High quality antenna with 2-axis step motor
- Fully automated satellite search
- LHCP/RHCP or Horizontal/Vertical polarisation
- Antenna weighs less than 10lbs (4.5kg)
- DVB signal identification
- Inbuilt GPS system for fast satellite acquisition
- Inbuilt NMEA 0183 GPS interface
- Easy satellite information change and update
- Antenna status check and automatic diagnosis
- Easy antenna control using PC interface
- Built-in MIM (Multi-satellite Interface Module)
- Up to six receivers can be connected to ACU directly
- Every receiver connected to ACU can be a master receiver which can change the satellite freely by TV remote control

INTELLIAN i3

15in Satellite TV Antenna System

The Intellian i3 gives superior tracking performance and efficiency over systems of a similar size and is ideal for boats over 25ft whether crusing in coastal waters or offshore. The i3 offers the highest signal strength available - its innovations in Wide Range Search (WRS) and Dynamic Beam Tilting (DBT) technologies meaning there is no compromise in reception quality even in rough seas. Integrated smart HD and TriSat modules allow access to HDTV channels just like at home. Its single cable design between the antenna and the control unit means trouble-free installation and operation.

SEEN IT FOR LESS? WE WON'T BE BEATEN ON PRICE!

KEY FEATURES

- 15in antenna with 2-axis step motor
- Fully automated satellite search
- LHCP/RHCP or Horizontal/Vertical polarisation
- DVB signal identification
- Inbuilt GPS for fast satellite acquisition
- Inbuilt NMEA 0183 GPS interface
- Easy satellite change and update
- Antenna status check and automatic diagnosis
- Easy antenna control using PC interface

INTELLIAN i4

18in Satellite TV Antenna System

With its rugged, reliable and durable design, the Intellian i4 provides outstanding performance while the vessels cruising at high speed or in rough sea conditions. The i4 offers all the features of the i3 system and is ideal for boats over 50ft.

EXPERT ADVICE

Satellite TV & Communications

INTELLIAN t80 & t80W

33in Stabilised TV Antenna System

Ideally suited for 80ft plus yachts requiring a compact antenna size with global satellite TV service reception. The t80 antenna locks onto satellites quickly and multiple HD receivers can be connected to the system as standard, providing a truly hands off global coverage depending on the regions visited.

The t80w version includes the patented WorldView™ LNB which automatically switches frequency depending on the region the antenna is operating in. As the satellite TV provider is selected electronically, there is no requirement to purchase multiple LNB modules, reconfigure complex systems and manually change the LNB unit inside the antenna dome each time the vessel crosses into a different satellite service region.

NEW FOR 2012

HOT PRODUCT

KEY FEATURES

- 3-axis stabilised antenna platform with fourth axis for LNB auto-skew control and unlimited azimuth capability
- Wide elevation angle (-10°~110°) for extremely low or high latitude regions
- Cross level axis ensures uninterrupted viewing even near the equator
- Built-in GPS with patented Wide Range Search (WRS) for fast satellite acquisition
- Wi-Fi connection for complete control and monitoring anywhere onboard
- Weighs just 58Kg, with internal shock absorbtion system

INTELLIAN v80G

33in Ku-Band VSAT Antenna System

The v80G offers reliable, "always-on" broadband connection at sea. It acquires and locks onto the satellite without requiring a separate input from the ship's gyro-compass. It is built to meet or exceed industry and military standards for vibration, shock and EMC for the greatest reliability in any sea conditions.

It is the smallest antenna that works without the need for a spread spectrum satellite network transmission. This provides a compact system in a TDMA or SCPC transmission format. The higher-gain performance design enables the antenna to operate on the fringes of the signal footprint.

NEW FOR 2012

HOT PRODUCT

KEY FEATURES

- 3-axis stabilised antenna platform with unlimited azimuth capability
- Wide elevation angle (-10°~110°) for extremely low or high latitude regions
- Built-in GPS for fast satellite acquisition
- Built-in ISMC transceivers enable faster data communication between antenna and control unit
- Remote antenna management - monitor and control from anywhere in the world
- Wi-Fi and Bluetooth for complete control and monitoring anywhere onboard
- Easy installation - just two cables to the antenna

What about...

How do I receive HDTV?

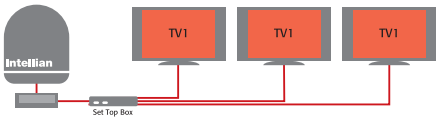
First, you must have a high-definition television set, along with an activated HD receiver. Domes fitted with the Intellian HD Antenna Control Unit (ACU) enables you enjoy full range of HD broadcasting.

HD TV

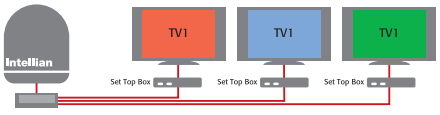
In the UK, HD programming is available through the Sky network or by using a FreeSat box. In the US, HD channels are available from Dish Network and Bell TV with the addition of a multi-satellite interface module (MIM). This electronic switch provides automatic switching between satellites.

Can I have more than one TV on my boat?

One Intellian antenna can be connected with multiple TVs. If each screen has its own satellite "set top" box (eg Sky Plus, FreeSat etc) you can watch different channels on each TV. However, if you only have one satellite set top box, all of the TVs will show the same channel -



Multiple TVs through single set-top-box - all TVs will see the same channel



Multiple Tvs with individual set-top boxes - each TV can watch different channels

"I'm sailing from Europe to Asia - can the Intellian satellite TV antenna be used in different regions?"

The Intellian antenna models for Asia and Europe may appear to be identical physically but there are distinct differences in hardware inside the antenna - the Low Noise Block (LNB) used to convert the satellite signal into an IF signal is specific to the geographic location - this applies to any brand of SatTV antenna. It is impossible to receive Asia satellite signals using the European version and vice versa. If the vessel is installed with the European system and the vessel is cruising into Asian coverage then the system will become inoperative and will need to have the LNB replaced by an authorized Intellian Service dealer. Intellian recommends if you are going to travel to different geographical regions (North America, South America, Africa etc), please contact an authorized Intellian dealer in advance to check if there is any specific adjustment needed to be made.

Turn to the back page for pricing and ordering info NOW!

ICOM VHF FOREIGN FLAG & PRIVATE CHANNEL PROGRAMMING VISIT OUR WEBSITE, PART NO. ZICOPPC

ICOM IC-M91D

Buoyant Handheld DSC VHF Radio with GPS

The world's first GPS Marine VHF/DSC Handheld with Man Overboard feature, which automatically sends a DSC message if you fall into the water.

HOT PRODUCT

KEY FEATURES

- Active Noise Cancelling Technology reduces background noise by up to 90%
- High definition dot matrix display
- New Icom Marine Family User Interface provides simple operation
- Waypoint/compass function
- "Float'n Flash" - the LCD, keypad and distress button will flash when IC-M91D comes into contact with water
- 700mW Loud Internal Speaker
- Aquaquake draining function provides clear audio
- Optional Speaker Microphone
- Waterproof construction equivalent to IPX7 (1m depth for 30 minutes)
- 3 Year Warranty

BUOYANT

NEW FOR 2012

ICOM IC-M23

Compact Buoyant Handheld VHF Radio

At just under 13cm in height, the IC-M23 is one of the smallest and lightest buoyant handhelds on the market and can match the audio and battery performance of comparable models. The IC-M23 features a bright internal red LED at the bottom of the radio automatically which starts flashing when the radio detects contact with water, a useful feature should you accidently drop the radio. Another useful feature is that the DC charging jack is protected with a watertight rubber cap which should keep the charging points of the radio free from corrosion for years to come.

KEY FEATURES

- "Float'n Flash" LED
- Can deliver 5W RF / 600mW AF for 10 hours at 5-5-90 operation
- Aqua Quake draining function blows water away from the speaker grille
- Rugged submersible body (1m depth for 30 minutes, equivalent to IPx7)
- Easy to read LCD with large channel indication
- Dual/Tri-watch and TAG Scan functions
- Instant access to Ch 16 or Ch 37A (M1).

SUPPLIED WITH

Li-ion Battery Pack, charger, belt clip and hand strap

ICOM IC-M35

Buoyant Handheld VHF Radio

Imagine a radio smart enough to adjust its volume level to account for the surrounding noise level. Icom's IC-M35 buoyant VHF marine handheld radio does just that with its Clear Voice Boost technology. This measures the ambient sound pressure level so that during a sudden burst of noise the IC-M35 not only automatically adjusts the volume but also the transmit level as well so your conversation is sent and received as clearly as possible no matter how noisy the background is. The inbuilt noise cancelling microphone further enhances the audio quality.

KEY FEATURES

- 6W output power
- Buoyant and waterproof to IPX7
- Clear Voice Boost override button
- Up to 8 hours use on a single charge
- Optional waterproof speaker microphone

BUOYANT CLEAR VOICE BOOST

SUPPLIED WITH

Li-Ion battery pack, charger, belt clip and lanyard

ICOM IC-M71

Handheld VHF Radio

The IC-M71 sets the standard for handheld VHF radios in design, waterproofing and battery technology. The durable and rugged body is waterproof to IPX8 standard and it was the first VHF marine handheld to feature output power of 6 Watts. Its internal speaker uses a bridge-tied load (BTL) audio amplifier to increase the audio output and it delivers a loud 600mW audio output for clear sound, even in noisy environments. The AquaQuake function ejects water from the speaker grille with low frequency sound.

KEY FEATURES

- Standard high capacity 2000mAh Li-Ion battery pack - up to 16 hours operation
- 2-step power saver
- 70 programmable channels
- Voice scrambler version available
- Hands-free operation with optional headset
- Optional speaker mic

EDITOR'S CHOICE

SUPPLIED WITH

2000mAh Li-Ion battery pack, "Smart" battery charger, belt clip, lanyard

ICOM MA-500TR

Class B AIS Transponder

Designed for non-SOLAS vessels such as pleasure craft and fishing boats, the MA-500TR AIS transponder not only receives information from AIS vessels within range, it also transmits your vessel's information as well, so you will be seen by other vessels. It features a full dot-matrix display and visually shows real-time vessel traffic information.

The MA-500TR can operate as a stand alone unit or it can be connected via NMEA to a PC or compatible chartplotters, radars etc allowing AIS data to be overlayed in real time onto chart and radar displays. It can also be integrated with the Icom IC-M505 and IC-M603 fixed VHF radios which allows you to send DSC individual calls to a selected vessel instantly without the need to manually enter the vessel's MMSI number (requires firmware upgrade).

KEY FEATURES

- Dual channel receive capability
- 3 lines of NMEA0183 Input/Output
- IPX7 waterproof protection - 1 metre depth for 30 minutes
- Features collision-risk management functions including CPA (Closest Point of Approach), TCPA (Time to CPA), Target list and dangerous list and collision alarm
- External alarm connection

SUPPLIED WITH

Comes complete with the MXG-5000 GPS

ICOM MXA-5000

Dual Channel AIS Receiver

This black box dual channel AIS receiver allows boat owners to receive AIS info (both Class A and Class B signals) on two channels simultaneously and output the information onto compatible PCs, combi displays, chartplotters or radars, aiding navigation and collision avoidance.

KEY FEATURES

- Data input port for multiplexing GPS and AIS data
- AIS data output via NMEA0183
- Full Class A and B duplex receiver
- Inbuilt antenna splitter

Fixed VHF/SSB Radios

ICOM VHF FOREIGN FLAG & PRIVATE CHANNEL PROGRAMMING VISIT OUR WEBSITE, PART NO. ZICOPPC

ICOM IC-M505E

Fixed DSC VHF Radio

All-in-one DSC VHF with large dot matrix LCD, rotary volume, squelch and channel select knobs and fistmic. The IC-M505 is compatible with the HM-162 Commandmic enabling full function dual station control of its DSC functions, intercom and other remote functionality including foghorn and a loudhailer.

KEY FEATURES

- Advanced IPX8 waterproof protection
- Large backlit dot matrix LCD display
- NMEA GPS input/output
- Dual / Tri Watch
- Fast Scan
- 25w hailer and auto fog horn facility

SUPPLIED WITH

Fistmic, power cable

ICOM IC-M603E

Fixed DSC VHF Radio

The IC-M603E is compatible with up to two HM-162 Commandmic's, allowing full remote control of all the built-in Class D DSC functions, as well as providing intercom capabilities and other remote functionality including foghorn and a loud hailer.

KEY FEATURES

- High resolution LCD with clear, easy to read characters.
- IPX7 Waterproof construction (1m depth for 30 minutes)
- Innovative AquaQuake draining function emits a vibrating sound to clear water away from the speaker grille
- Front and rear microphone connection
- Inbuilt 30 Watt 2-way hailer with listen back capability

SUPPLIED WITH

Fistmic, power cable

ICOM IC-M411E

Fixed DSC VHF Radio

A compact waterproof VHF/DSC radio ideal for small boats or where space is at a premium. The large speaker grille gives excellent audio quality. The buttons and display are easy to see in poor lighting conditions. The Aquaquake draining function emits a buzzing sound which sheds any water that gets into the speaker system, ensuring sharp, clear audio even in the worst conditions.

KEY FEATURES

- Dual/Tri watch
- Multiple scan
- External speaker connection
- Up to 70 programmable channels
- Programmable channel comment
- 100 MMSI directory and up to 40 received DSC messages
- Low voltage indicator and 2-step power saver function

SUPPLIED WITH

Fistmic, power cable

ICOM IC-M423

Fixed DSC VHF Radio

Icom's Next Generation compact fixed VHF with high definition dot matrix display. The new Icom Marine Family User Interface provides simple operation. Rotary selector and directional keypad provide intuitive operation. Compatible with the Icom MA-500TR AIS Transponder for one-touch DSC individual calls.
Three year warranty.

KEY FEATURES

- Active Noise Cancelling Technology reduces background noise by up to 90%
- 10W Loud Audio, Public Address and Fog Horn
- Optional HM-195 Commandmic
- Compatible with Icom MA-500TR, AIS Transponder for one-touch AIS Target Call
- Aquaquake draining function provides clear audio
- Waterproof construction equivalent to IPX7 (1m depth for 30 minutes)

SUPPLIED WITH

Fistmic, power cable

ICOM HM-162 COMMANDMIC III

Full Function Remote Fistmic

With LCD display and multi jog dial giving full control of the IC-M505 and IC-M603 radios including DSC functions, intercom, foghorn or loudhailer etc.

This allows the user to operate the transceiver from many areas of the vessel such as the deck or fly bridge with ease. The Commandmic fits in the palm of your hand comfortably and the multi jog dial enables easy and intuitive operation.

KEY FEATURES

- Large backlit dot matrix LCD display
- Distress Alert button on rear of unit
- Large 45mm speaker give loud, clear sound
- Compatible with IC-M505
- Waterproof to IPX8

ICOM IC-M802

SSB Transceiver

Powerful SSB radio system meeting GMDSS Class A specifications, with inbuilt DSC facilities. The main transceiver unit can be installed out of sight, while operation is via a compact remote control panel with a large, easy to read display.

Two large bank and channel dials make channel selection fast and easy. 1355 ITU channels, up to 16 banks of user channels, 17 banks of ITU channels - each with up to 20 channels per bank Inbuilt modem for email and data services. NMEA in for GPS, RS-232C port for PC input. Integrate the remote control with the IC-M603 or IC-M505 VHF radio to form a complete MF/HF/VHF communications station.

KEY FEATURES

- Digital signal processor
- 125W (PEP) output
- VFO mode option
- Wide band receive coverage (0.5 – 29.9999MHz)
- Headphone jack, RS-232C/NMEA input, GPS input, printer output and D-SUB connector for NBDP/FSK terminal
- Available with telephone handset or fistmike
- IC-M801GMDSS meets MED96/98/EC wheelmark requirements for SOLAS
- Icom M802 for non-UK vessels also available

Turn to the back page for pricing and ordering info NOW!

Standard Horizon
VHF Radios

STANDARD HORIZON GX1100E
Fixed DSC VHF Radio

Affordable ultra compact Class D DSC VHF Radio with an advanced die-cast chassis. Position, date and time are also displayed when interfaced with a GPS. Submersible rated JIS7/IPX7.

KEY FEATURES
- Channel naming
- Large clear dot matrix display
- ATIS compatible
- NMEA in and out connections
- Programmable Scan, Priority Scan, Dual Watch

STANDARD HORIZON GX1600E
Fixed DSC VHF Radio

Mounting a VHF radio has never been easier! The GX1600E's ultra thin, compact rear case is only 3.5in deep - half the depth of comparable VHF radios on the market. Submersible to JIS-8 standard with three year waterproof guarantee!

KEY FEATURES
- Oversized dot matrix display
- Customisable channel names
- Programmable soft keys
- GPS compass and navigation (LAT/LON, SOG, and COG) display
- Enter, save and navigation to waypoint
- Navigation to DSC Distress Call position
- Automatically poll the GPS position of up to 4 ships using DSC
- Noise canceling microphone with channel select, 16/9 and H/L keys
- NOAA weather channel selection with alert
- Programmable Scan, Priority Scan, and Dual Watch
- NMEA input and output
- Compatible with CMP30 Remote Access Microphone

NEW FOR 2012

STANDARD HORIZON GX2000E & GX2100E
Fixed DSC VHF Radio

Compact AIS enabled DSC VHFs with large, clear 1.8in dot-matrix displays. The GX2100E has an inbuilt dual channel AIS receiver, the GX2000E receives external AIS data via NMEA - AIS targets are displayed in a radar style format*. Connect to a GPS and both models can store up to 100 waypoints, which can be navigated to using a unique compass display. The display also shows position, speed, course and bearing to waypoint.

** GX2000E requires an external AIS input*

KEY FEATURES
- AIS info - MMSI, call sign, ship name, bearing, distance, speed and course
- Closest Point of Approach (CPA) alarm
- No need to enter the MMSI number to call a specific AIS vessel - simply select the target and press the call button!
- Position polling, ideal for flotillas and fishing fleets
- 30 Watt PA/loudhailer pre-programmed with fog signals
- Output AIS data to chartplotters etc via NMEA
- ClearVoice noise cancelling speaker microphone
- Rugged die cast chassis, waterproof to JIS7 / IPX7

HOT PRODUCT

STANDARD HORIZON CMP30
RAM3 Second Station Mic

This submersible remote has an oversized LCD display and backlit keys. It operates as a second station to the radio allowing full control of the VHF at the flybridge, in the cockpit, tower or location of your choice.

KEY FEATURES
- Control all VHF functions including PA, foghorn, DSC
- Inbuilt distress alert button
- Display shows channel names and repeats GPS info
- Also controls AIS and waypoint functions when used with the GX2000E and GX2100E

SUPPLIED WITH
Bulkhead socket assembly, mounting clip

STANDARD HORIZON HX280E
Waterproof Handheld VHF Radio

Compact, rugged submersible handheld featuring all International, USA and Canadian channels and a highly legible LCD display with automatic backlight. The preset key allows you to recall the 10 most frequently used channels. Standard Horizon are so confident of the HX280E's waterproof integrity and reliability that they are offering a three year no quibble free of charge "repair or replace" guarantee if it fails for any reason.

KEY FEATURES
- 16hr duty cycle from 1650mAh Li-Ion battery
- Dual Watch
- Battery charge level indicator
- Standard three year guarantee

SUPPLIED WITH
1650mAh Li-Ion battery pack, belt clip

STANDARD HORIZON HX290E
Waterproof Floating Handheld VHF Radio

An affordable floating handheld radio with speaker microphone socket and large easy to read display

KEY FEATURES
- Submersible JIS-8 / IPX8 (3.3 feet for 30 minutes)
- Slim form fitting case
- Selectable 5 and 1 Watt transmit power output
- Glow-In-the-Dark strip
- Huge channel display
- Optional speaker microphone or headset capable
- All USA, International and Canadian Marine Channels
- Programmable Scan, Priority Scan and Dual Watch
- Preset key used to recall up to 10 favorite channels
- NOAA Weather channels and Weather Alert
- Key lock
- Squelch level on display
- Low battery indicator
- Optional FBA-40 Alkaline battery tray available
- 3 Year Waterproof Warranty

NEW FOR 2012

SUPPLIED WITH
Li-Ion battery, belt clip, AC charger, cradle with charging indication and wrist strap

STANDARD HORIZON HX750E
Waterproof Floating Handheld VHF Radio

Rugged handheld with an inbuilt thermometer, SOS strobe light and 6W transmit power. Features programmable scan, priority scan, dual watch and an external speaker mic connector. Can be powered using standard AAA drycell batteries in an emergency using the optional FBA-38 adaptor.

KEY FEATURES
- Waterproof and floats
- External speaker mic jack
- Preset key (10 channels)
- 700mW audio output

SUPPLIED WITH
1150mAh li-Ion battery pack, mains charger and belt clip

STANDARD HORIZON HX500E
Waterproof Handheld VHF Radio

Submersible handheld VHF that has all the features of the HX280E with the option of using external speaker micro-phones and headsets via the waterproof accessory socket. Now with Lithium Ion battery pack for longer life.

KEY FEATURES
- Selectable transmit power
- 700mW loud audio
- VOX hands-free operation with optional VC-24 headset

SUPPLIED WITH
Li-Ion battery pack, 12v overnight charger, cigarette lighter cable, belt clip

Standard Horizon

Chartplotters

STANDARD CPN700i & CPN1010i

7in & 10in Chartplotter and Chart Sounder

A range of 7in (CPN700i) and 10in (CPN1010i) colour chartplotters - the first to offer built-in Wi-Fi®, Internet Explorer 6.0 and Windows Media Player capabilities. Stream live music or video and listen effortlessly from the chartplotter's front panel built-in speakers.

KEY FEATURES

- CPN700i - 7in 800x480 sunlight viewable bonded touchscreen, 1000Nit backlight
- CPN1010i - 10in XVGA 1024x600 sunlight viewable bonded touchscreen, 1000Nit backlight
- Built-in Wi-Fi®, Internet Explorer 6.0 and Windows Media Player
- Stream live music or video and listen effortlessly from the chart plotter's front panel built-in speakers
- USB connection for memory stick to watch movies, view pictures, or listen to music
- Dual station networking capability
- Optional C-Map 4D cartography for viewing 3D, raster or vector charts and an intensive library of photos and POI's
- Internal 50 channel WAAS GPS antenna with external antenna connection
- Dual chart window with independent zoom levels
- Displays DSC Distress and Position report calls received from a DSC VHF radio
- AIS and FF525 Fish Finder capable
- 1 (CPN700i) or 2 (CPN1010i) NTSC or PAL Video inputs with Picture in Picture display
- CPN1010i - VGA Video output to connect to a monitor at a second station
- 3000 Marks / 50 Routes / 20 Tracks with 10,000 available track points

SUPPLIED WITH

50 channel GPS, swivel mount bracket, flush mount

STANDARD HORIZON FF525

Dual Frequency Fishfinder Module

Black box dual frequency 50/200kHz fishfinder for the Standard Horizon range of chartplotters.

KEY FEATURES

- Fish symbols or coloured echo
- Up to 4 x zoom
- Fish alarms
- Sensitivity time control reduces surface clutter
- White line distinguishes between fish and seabed
- Xducer ID detection system auto configures power output to suit the transducer

SUPPLIED WITH

Transducer supplied separately and must be specified

Tech info

Sitex Radar Scanners

To add radar functionality on your Standard Horizon chartplotter, you simply need to add a Sitex radar scanner -

Part No.	Size	Power	Type	Range
ZSITMDS1	12in	2kW	RD	24nm
ZSITMDS8	20in	2kW	RD	24nm
ZSITMDS9	24in	4kW	RD	36nm
ZSITMDS10	48in	4kW	OA	48nm

RD - *Radome Antenna (enclosed)*
OA - *Open Array*

STANDARD CP180 & CPF180

5in Chartplotter and Chart Sounder

Available as a chartplotter or a combination chart sounder with inbuilt 600W dual frequency fishfinder, both models are packed with features normally reserved for much bigger, more expensive units including AIS integration.

KEY FEATURES

- CP180 - colour chartplotter
- CPF180 - inbuilt 600W 50/200kHz fishfinder
- External or internal 50 channel GPS antenna
- 3000 waypoints, 50 routes, 10,000 marks
- 2nm worldwide basemap
- 1 NMEA input and 2 outputs
- Dual chart window with independent zoom
- VHF DSC polling capability
- Route Check alerts to hazards along the way
- Radar integration

SUPPLIED WITH

50 channel GPS, mounting bracket, flush mount kit

STANDARD CP300 & CPF300

7in Widescreen Chartplotter and Chart Sounder

Available as a chartplotter or combination dual frequency chart sounder with a large, high resolution 800x480 pixel display and 6 customisable quick keys.

KEY FEATURES

- External or internal 50-channel WAAS/EGNOS GPS
- CP300 - colour chartplotter
- CPF300 - inbuilt 600W 50/200kHz fishfinder
- 2nm worldwide background map included
- Radar and AIS integration
- 3000 marks/waypoints, 50 routes
- 5 NMEA outputs, 2 NMEA inputs, video input
- VHF DSC position polling

SUPPLIED WITH

50 channel GPS, swivel mount bracket, flush mount

STANDARD HORIZON CP500

12in Chartplotter

With a big 12in sunlight-viewable screen, the CP500 offers all the features of the CP300 with the addition of an alphanumeric keypad and radar compatibility.

KEY FEATURES

- 12in 800x600 sunlight viewable TFT colour display
- Radar and AIS integration
- 5 NMEA outputs, 2 NMEA inputs, 2 video inputs for security cams, DVD etc
- VGA output for repeaters/second stations

SUPPLIED WITH

12 channel GPS, mounting bracket, flush mount kit

Turn to the back page for pricing and ordering info NOW!

Shakespeare
Antennas & Accessories

V-TRONIX ANTENNAS AND FITTINGS

This is just a small sample of the full range of Shakespeare's range of antennas and accessories. Contact us for advice and full details.

YHK HAWK
Stainless Steel Whip & Hawk Wind Indicator

- Low windage
- 20m cable
- Solderless connection
- PL259 plug

YWX WHIPFLEX
Stainless Steel Whip

- Low windage
- 20m cable
- Solderless connection
- PL259 plug

HA156C & HA156C-AIS
Stub Antennas

NEW FOR 2012

- Low windage for racing yachts
- Helical construction
- 20m cable
- PL259 plug
- No groundplane required

YRR RAIDER
RIB Antenna

- Specially designed for rigid inflatable boats
- Short helical design to avoid snagging
- Solderless connection
- 8m cable
- PL259 plug

MD 10S
1.5m GRP Antenna with polycarbonate ferrule

- Ideal for smaller power boats & workboats
- 6m cable, PL259 plug
- Complete with white nylon Ratchet Mount

RV120
1.5m GRP Antenna with stainless steel ferrule

- Ideal for smaller power boats & workboats
- 6m cable
- PL259 plug
- Stainless steel ferrule

RV120-P
1.5m GRP Antenna with polycarb ferrule

NEW FOR 2012

- 3dB antenna.
- Ideal for smaller power boats & workboats
- 6m of RG58 cable plus PL259 connector

ARMNT-P
Ratchet Mount, Nylon

- Four-way swivel mount
- Deck or side mount
- Quick release lever
- UV resistant
- Suitable for antennas less than 2.4m

ARMNT
Ratchet Mount, Stainless Steel

- Four-way swivel mount
- Deck or side mount
- Quick release lever
- UV resistant

ARMRM-S
Ratchet Rail Mount, Stainless Steel

- For 22mm & 25mm vertical/horizontal rails
- Quick release lever

ARMRM-P
Ratchet Rail Mount, Nylon

- For 22mm & 25mm vertical/horizontal rails
- Complete with rubber gasket
- Quick release lever

ARM-S
Economy Rail Mount, S/Steel

- For 22mm & 25mm round or square rails
- Vertical or horizontal fit
- Can be mounted on flat surfaces
- Complete with nylon adaptor

ARM-P
Fixed Rail Mount, Nylon

- For 22mm & 25mm rails
- Complete with adaptor, rubber gasket & hexagonal key
- Can also be mounted on flat surfaces
- Complete with nylon adaptors

ALDHM
Fixed Base Mount, Stainless Steel

- 100mm high, 75mm dia. base
- Ideal for fitting to radar arches
- Excellent for GPS & marine TV antennas

ALDHM-P
Flange Mount, Nylon

- 25mm high, 70mm dia. base
- Suitable for moderate duty operations

5216
Whip Antenna

- Specially built for sports boats
- Super lightweight
- Black stainless steel
- Gold-plated connector
- Black "L" bracket included for mast mounting

5911 STOWAWAY
NEW FOR 2012

Emergency VHF Antenna

- 25.5cm whip antenna
- Weather-resistant plastic tube
- 3.6m cable, SO239 connector
- Rubber suction cup
- Velcro straps included

5187
Quick Release Ratchet Mount

- Stainless Steel
- 4 way swivel.
- 5° adjustment.
- Sleek design

NEW FOR 2012

5218
NEW FOR 2012

Magnetic Whip Antenna

- 48 cm black stainless steel
- VHF whip antenna.
- Magnetic mount - quick detach
- 4.5m RG58 cable with PL259 connector

WS200-P
Extension Loudspeaker

- Surface or flush mount
- Weatherproof, UV resistant
- Suitable for 4 or 8 ohm systems

ACC105
Deck Plug & Socket

- For RG58 cable
- With N-type connector, shroud & s/steel screws
- With 2 protection caps

PV3i
DC-DC Converter

- Converts 24v-12v
- 3/6 amp
- Isolated Switchmode

NEW FOR 2012

MD23
Helical VHF Antenna

NEW FOR 2012

- 0.31m helical antenna
- Robust VHF antenna ideal for RIBs and Sports boats operating in tough conditions

5250 SKINNY MINI™
0.9m Stainless Steel Whip

- Ideal for vessels with limited space
- 4.5m RG58 cable, PL-259 connector
- Standard 1"x14 thread
- Requires mount with centre hole for cable

NEW FOR 2012

- Suggested mounts: 4187, 5187, 4188-S, or 4190 Mounts

RV-240
2.4m GRP Antenna with stainless steel ferrule

- 6dB antenna.
- Ideal for power and work boats
- 1" x 14 TPI thread
- 6m RG58 cable with PL259 connector

NEW FOR 2012

Remember...

A radio is only as good as its antenna!

No matter how much you pay for a radio, its performance will be directly proportional to the quality and performance capabilities of the antenna. Don't compromise - insist on Shakespeare!'s V-Tronix range.

Satcoms

THRANE & THRANE SAILOR FLEETBROADBAND 150 & 250

Voice & Broadband Internet Access

Sailor 150 FleetBroadband features a small and light antenna, which enables simple user-installation, so smaller vessels with a requirement for reliable, high quality global internet and voice can enter the broadband era with a true IP solution.

The Sailor 250 FleetBroadband harnesses the flexibility of Inmarsat's latest I-4 satellite technology. It offers budget conscious fishing vessels, workboats and private yachts the opportunity to enter the broadband arena whilst providing the reliability and functionality expected of systems for large commercial vessels.

The same benefits are available for private yachts. Users can be confident that the rugged and reliable design engineered for professional use means it will take everything from a Mediterranean cruise to an Ocean crossing in its stride.

EXPERT ADVICE

KEY FEATURES

- Data rate - 150kbps (150), 284kbps (250)
- Antenna diameter less than 30cm
- Weight - 3.9kg (150), 5kg (250)
- Competitively priced hardware and airtime
- Voice and data simultaneously
- IP connection for e-mail, internet & intranet access
- LAN interface
- IP Handset interface

THRANE & THRANE SAILOR TT-6110

Mini-C System

No professional seaman ever compromises the safety of his crew and vessel, and the new Sailor 6110 mini-C GMDSS is the world's most powerful, user-friendly and reliable satellite transceiver system for all ship tracking, monitoring, messaging and distress communications.

As the latest in the exceptional range of Inmarsat-C systems that have been watching over seamen for the last two decades, the SAILOR 6110 mini-C features a range of unique enhancements, such as superior durability, ThraneLINK compatibility, SSAS compliance and a Galileo-ready 50 channel GPS module.

NEW FOR 2012

KEY FEATURES

- First ever approved touch screen terminal for GMDSS use
- External storage via SD card or USB flash disk
- Innovative approach to cabling for simple networking and expansion
- Accurate, reliable 50 channel GPS module that is also Galileo ready
- ThraneLINK

IRIDIUM 9555 & 9575

Handheld Satellite Phones

The 9555 is a compact, light and easy to use handheld Iridium phone with SMS and email capabilities and an upgraded mini-USB data port. Water and shock-resistant, it is engineered to perform in demanding and industrial environments. For really demanding applications, the new 9575 Extreme model puts all the features of the 9555 in a ruggedised, military-grade designed handset and adds additional functionality such as GPS-enabled location-based services, online tracking and accessories to create instant Wi-Fi hotspots.

NEW FOR 2012

HOT PRODUCT

KEY FEATURES

- True global coverage
- Retractable antenna for compact carrying
- Illuminated, weather-resistant keypad
- Menu configurable in any of 21 languages
- Additional address book fields for phone numbers, email addresses and notes
- Programmable international codes for automatic dialling
- Built-in help function
- Integrated speakerphone
- Mini-USB data port
- Standby time up to 30 hours, talk time up to 4 hours
- **9575 Extreme** - GPS-enabled location-based services
- **9575 Extreme** - Online tracking
- **9575 Extreme** - Accessories to create instant Wi-Fi hotspots
- **9575 Extreme** - Certified S.E.N.D. by RTCM

9555

9575 Extreme

SUPPLIED WITH

Battery, AC charger, DC car charger, holster, handsfree kit, external antenna

INMARSAT iSATPHONE PRO

Handheld Satellite Phone

The first global handheld from Inmarsat - the world's most reliable satellite communications network. The iSatphone Pro offers clear voice quality and is easy to use with an intuitive GSM-style interface and a high-visibility colour screen. The larger keypad makes it easy operate even when wearing gloves. It is also the only satellite phone that currently supports Bluetooth.

It also offers highly competitive handset, accessory and airtime pricing.

HOT PRODUCT

KEY FEATURES

- Dust, splash and shock resistant
- Voicemail, text and email
- Call history, caller ID
- Call waiting, call divert, call holding and barring
- Conference calling
- Speed dialling
- GPS location data
- Up to 8 hours talk time
- Up to 100 hours standby time

THURAYA XT

Handheld Satellite Phone

Splash resistant, dust protected, and shockproof, the Thuraya XT is one of the most rugged handsets, combining satellite phone functionality with the technology of the Thuraya network. GmPRS capability means you can tether the phone to your laptop or PC to receive emails and browse the web from anywhere.

KEY FEATURES

- Rugged design with an IP54/IK03 rating
- Internet-on-the-go
- Weighs only 193g
- Compact - measures only 128 x 53 x 26.5mm
- Download speed - 60kbps
- Upload speed - 15kbps
- Fax and data @ 9.6kbps

IRIDIUM SAILOR SC4000

Fixed Iridium Satellite Phone

Suitable for any size of vessel, comprises transceiver, intelligent handset and small marinised antenna. Ideal for crew calling use with pre-paid scratch cards.

KEY FEATURES

- True global coverage - voice and data
- Data rate 9.6kps when compressed
- Rugged construction, lightweight waterproof antenna
- Flexible installation - up to 50m between handset and transceiver, up to 30m coax cable available
- RJ11 port for secondary analogue telephone

SUPPLIED WITH

Transceiver, antenna, handset. Antenna cable sold separately (10, 15, 20 & 30m sizes)

Turn to the back page for pricing and ordering info NOW!

Moerer, Vesper, Avtex

Navtex, AIS Repeater, TVs

MOERER WIB2D

Navtex Receiver & Barograph

Smaller than a pack of cigarettes, this dual channel Navtex receiver with inbuilt LCD display and internal antenna shows weather and navigation information. The inbuilt rechargeable battery can last up to three days and it can also be connected to a PC.

KEY FEATURES

- Simultaneously monitors 490kHz & 518kHz
- Display of air pressure trends over the past 48 hrs
- Automatic message decoding
- Charge battery via USB lead, 12V DC cable or optional 230V charger
- Compact - only 103 x 62 x 26.5mm
- Supplied with USB connection/charge cable (optional 12 v and 220v chargers) and software for Windows 2000, XP, VISTA

MOERER WIBE

PC Navtex/Weatherfax Decoder

Black box Navtex and Weatherfax receiver with USB PC connection that enables you to display Navtex messages and synoptic weather charts on your PC or laptop.

KEY FEATURES

- Receives HF Fax, NAVTEX (490 & 518KHz), SYNOP and sea weather forecasts
- Europe-wide weather information from Northwood and DWD
- Built in electronic barograph
- No software to install - works through your web browser
- Memory card slot to store images for viewing on PDAs or monitor
- Low power consumption
- Requires connection to external active antenna (optional) or insulated backstay

MOERER WIB2B

PC Navtex Receiver

Innovative dual frequency 490kHz and 518kHz Navtex module with internal antenna no separate antenna required. No software installation is necessary, simply plug into a spare USB port to display the Navtex messages on your PC or laptop. The messages are stored in HTML format and can be viewed via web browser. Compatible with Windows ME, 2000, XP, Mac OS and Linux systems.

KEY FEATURES

- Simultaneous reception on both frequencies
- Includes inbuilt barograph
- Compact - only 90x57x23 mm
- Internal battery will power the unit for approx 3 days without PC
- The battery is recharged via the PC
- Non volatile memory for 762,000 characters
- Optional 12/24V or 230V charger

MOERER WIB2BX

PC Navtex Receiver

Navtex receiver with PC connection supplied with either a balun antenna adaptor (allowing a long wire or insulated stay to act as the antenna) or a dedicated compact active antenna. Sail boat owners will appreciate the ability to use a stay as an antenna without more masthead antenna clutter.

KEY FEATURES

- Connect to PC via USB interface
- True dual channel receiver - simultaneous reception of both Navtex frequencies
- Inbuilt highly accurate (to 0.1hPa) barograph with 7 day log

VESPER AIS WATCHMATE

AIS Information Repeater

Compact AIS repeater with 5in 320x240 pixel backlit display. The AISWatchMate is a valuable tool to help avoid collisions at sea, displaying data from AIS equipped vessels in your vicinity. It can simultaneously track up to 128 targets and audibly warn if a potentially dangerous situation exists. *Note: This is not an AIS receiver, an AIS receiver/transceiver is required to work in conjunction with this product.*

KEY FEATURES

- Graphical radar style display
- Ultra low power consumption
- Unique CPA plot shows whether target will pass ahead or behind to determine the best collision avoidance strategy
- Organises targets by priority for operation in high traffic areas
- Filters eliminate false alarms when navigating in crowded shipping areas
- Customisable profiles (anchored, harbour, coastal and offshore) tailor alarm settings to your situation
- Handles all types of AIS (class A and B, aids to navigation and safety messages)
- Two NMEA0183/RS232 inputs and one output
- AIS data can be output to PCs and chartplotters/ combi displays
- External alarm output
- Waterproof to IP67/CFR46

HOT PRODUCT

Unique CPA plot

AVTEX W103D

10.4in LCD 7-in-1 Combi TV

Ultra compact LCD TV which will fit in even the smallest cabin! Digital/Analogue receiver DVD/CD player, with a built-in FM radio, a digital photo viewer, and PVR function allowing you to record programs to a USB memory device.

KEY FEATURES

- Digital and analogue receiver
- Resolution 1024 x 600
- Card reader
- Integral MHEG5 decoder
- Instant or schedule recording to USB or external hard drive
- AC/DC power
- Dimensions 21.0H x 28.1W x 3.7D cm

AVTEX W164DR

16in Widescreen LCD 7-in-1 Combi TV

Super-slim DVD/TV Combi loaded with features such as One Button Tuning and Pause Live TV, inbuilt FM radio and Freeview receiver, it also has a VGA input so it can double up as a PC monitor, saving even more space!

KEY FEATURES

- HDMI x 2
- Resolution 1366 x 768
- Integral MHEG5 decoder
- Instant or schedule recording to USB or external hard drive
- AC/DC power
- Dimensions 28.7H x 40W x 5.2D cm

AVTEX L185DR

18.5in Widescreen LED 7-in-1 Combi TV

Compact LED TV, ideal for onboard use in cabins etc or where space is limited. Inbuilt CD/DVD player, FM radio, PC monitor input and inbuilt Freeview receiver.

KEY FEATURES

- HDMI x 2
- Resolution 1366 x 768
- One button tuning
- Pause live TV
- Integral MHEG5 decoder
- Instant or schedule recording to USB or external hard drive
- AC/DC power
- Dimensions 32.5H x 47.0W x 3.2D cm

Information

HOW WE DO BUSINESS

WHY NO PRICES?

People often ask why we don't print prices in our Buyer's Guide, the reason is simple -

- The Buyer's Guide comes out once a year, but prices change daily.
- At any one time there will be a number of special offers or mega deals on particular items.
- Some of our suppliers don't like us advertising low prices as it upsets the other dealers who don't have our volume and can't compete!

If you want to find out our latest prices why not visit our online store ***www.mesltd.co.uk*** where you can shop securely online, 24hrs a day. Getting an account is easy and free of charge - simply visit our site, register and you can immediately benefit from our megadeals, bundle package specials and other great offers - it even remembers what you've put in your basket for when you return next time!

If you wish we can also provide you with our complete price list as PDF file on request -

- **email us** on sales@mesltd.co.uk,
- **call us** on 01179 114111 or
- **fax us** on 01179 556289

PAYMENT

We accept the following methods of payment - cash, cheque and most credit and debit cards -

- MES will not charge your credit/debit card until the goods are shipped unless it is a highly specialised item, in which case we may ask for a small deposit at the time of order.
- MES also accept Euro and US Dollar payments and bank transfers.

EXPERT INSTALLATION & SUPPORT

Whilst all of the products we offer come with detailed installation instructions, you can't beat the performance you will get from a professional installation. Ocean Install - a sister company of MES - provides specialist marine electronics design, consultancy, installation and service.

- With installation bases in Southampton, Poole, Bristol, London, Falmouth, Palma and Antibes, we offer a pan European service at extremely competitive prices. Our team of highly trained technicians offer an unrivalled degree of quality, know-how and craftsmanship.
- Ocean Install's services start at the outset of any project. Our design and consultancy division will put together a detailed electronic system design - ideal for large scale projects where equipment is to be installed by 3rd parties or by a boat builder.
- Our unique **Kre-8!** design solution gives you a single document to allow a sophisticated electrical and electronics system to be implemented in a cost effective manner - and to deliver the required technology effectively. The **Kre-8!** package can including kitting and tendering lists allowing you to shop for the best value solution.
- Our engineers are all factory trained electronic technicians as well as having intimate knowledge of boats. This winning combination of knowledge and practical experience means you'll get a truly professional installation and get the most out of your equipment. Whether it is a simple radar system or a complex computer network, we'll be happy to offer a competitive quote.
- If you prefer to fit yourself, then you may like to take advantage of our commissioning service - our team will pick up where you leave off, carrying out final connections and setting up the system. You may also be able to take advantage of extended warranty options where we commission the equipment.
- Service - we also offer on board and bench service repair for electronic equipment.
- Support & Training - a few hours spent on professional training can really reap rewards in terms of product operation and usability. Ocean Install has a team of people happy to offer friendly and easy to understand product training and help you get the best out of your system.
- Sophisticated products need sophisticated and specialist support. We're here to provide the support you need by phone, fax and e-mail. The fastest route to a support solution is to e-mail our team of technicians at ***tellmehow@oceaninstall.com*** with your customer reference number and details of your query and we'll have you up and running in no time.
- We offer a range of extended warranty packages with onboard and world wide support

PROFESSIONAL TRAINING

With loads of extra functionality and a whole host of new features built into the latest electronic products, it makes sense to get up to speed on your system and get professional training.

Our training facility at our Bristol office runs a series of short, 1 day intensive courses on some of the most popular systems we sell. They aim to provide you with the techniques to get the best from your system and can also cover installation and interfacing for DIY installers.

Courses are endorsed by the manufacturers and are designed around small user groups to get the best possible knowledge transfer. Book today by calling ***01179 114111*** or email ***sales@mesltd.co.uk***

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Please call for European offices

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Standard Horizon CPN700i & CPN1010i
Multimedia Touchscreen MFDs

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Scanstrut iPad Waterproof Case

PAGE 10

New Colour Multifunction Integrated
Instruments From B&G And Raymarine

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